SIXTIETH

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY,

FOR THE YEAR

1885.

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OFFICERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary,

1885-86.

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FREDERICK L. JACK, M. D.
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ELIZA M. WHITFORD, *Matron.*

REPORT OF THE MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1885.

In behalf of the managers of the Massachusetts Charitable Eye and Ear Infirmary, we herewith present the report of the surgeons for the year ending Sept. 30, 1885. As will be seen from that report, the number of patients treated during the year was 12,279, as against 11,027 in 1884, and 9,929 in 1883; thus showing not only an increase in their number over last year, but a growth in the rate of increase of that number. The result is the largest number of persons the Infirmary has ever treated in any one year.

A valuable addition to the subject-matter of previous reports has been made in this one for the first time, in the shape of a table of occupations of patients. Its scientific importance need not be pointed out.

The most interesting result to be gleaned from the report is the evidence it discloses of the importance of cocaine. The discovery of this drug was noticed in the report for last year, but at that time it had not been employed long enough for the Infirmary to testify statistically to its value. In addition to its direct effect in producing insensibility to pain, its indirect effect in the successful issue of operations has been marked. In the report of Dr. Willard on the cataract cases, the ratio of success to failure has been greater than

ever before. As against 71 per cent of successful operations in 1883, 74 per cent in 1884, this year yields a percentage of 82+. This happy result is due, as the report points out, to cocaine. We also observe from this, that the special surgical skill has waited upon the much-needed potency of this new medical acquisition; an incidental tribute most justly rendered by statistics to our surgeons.

The increasing demand for treatment of patients within the Infirmary must, before long, be met by an addition to the number of beds at the disposal of the surgeons. But as this department of the work is by far the most costly, including, in nearly all cases, the gratuitous board of patients, it is difficult to see how the want can be met with the present means at the disposal of the institution. A large addition to its funds, with an even more liberal contribution by the State, must be had to warrant any increase in this direction. For such increase the managers must look to a liberal public, who, in this community, have never been known to allow a really deserving charity to languish for want of aid.

ARTHUR ROTCH.
PERCIVAL LOWELL.

REPORT OF THE SURGEONS.

To the Managers of the Massachusetts Charitable Eye and Ear Infirmary,

For the Year ending Sept. 30, 1885.

Gentlemen, — The following pages of statistics record the amount of work done in the Infirmary by the ophthalmic and aural surgeons, and form the annual report for the year ending Sept. 30, 1885.

The increase of patients has been exceptionally large, the number, 11,027 in 1884, having risen to 12,279 in 1885, a gain of 1,252, — the greatest in a single year in the history of the Infirmary. For the past twenty years the average increase has been upwards of 400 yearly, but two years showing an actual loss in numbers, and those only in a slight degree. Of these 12,279 patients, very nearly 12,000 are from our own State of Massachusetts; this great number embracing many cases of injury and disease, restored to active life and capability for self-support, which otherwise would have been a burden upon the State.

The number of beds for house patients is hardly adequate to the needs of the Infirmary, and only by excluding many deserving cases can the limit of beds now assigned be preserved. With the steady growth of the number applying for treatment, a proportionate growth in the number of beds at the disposal of the surgeons should keep pace to meet the increased demand for accommodation within the walls of the Infirmary.

The year has been rendered notable by the discovery of

the property of the alkaloid cocaine as a local anæsthetic for the eye. This discovery was early appreciated by the staff of the Infirmary, and the usefulness of the drug has been thoroughly tested during the year past. Since the latter part of October, 1884, up to the date of this report, cocaine has been used for important operations on the eye in more than three hundred cases. In minor operations, also, heretofore generally done without an anæsthetic, it has given relief from pain in many hundred instances. The contrast between its action on the patient and the frequently unpleasant effects of ether is most striking, and it has proved an important factor in increasing the number of successful results in the surgery of the eye. The exceeding scarcity and, hence, high commercial value which prevailed for several months after its introduction has of late been greatly done away with, and the drug is now to be obtained at a very moderate cost.

The thanks of the surgeons are due for the efficient assistance afforded by the internes and externs in the medical and surgical work, and by the superintendent and matron in the general management of the house.

HASKET DERBY.
HENRY L. SHAW.
F. P. SPRAGUE.
B. JOY JEFFRIES.
ROBERT WILLARD.
CLARENCE J. BLAKE.

STATISTICS.

October 1, 1884, to October 1, 1885.

Classification of Patients, Diseases, and Operations.

House Patients.

Eye Patients:			
Males		340	
Females		230	
			570
Ear Patients:			
Males		9	
Females		11	20
Total House Patients			590

Out-Patients.

Eye Patients:			
Males	4,336		
Females	4,003		
		8,339	
Ear Patients:			
Males	1,815		
Females	1,535	3,350	11,689
Total number of patients			12,279

Residents of Boston	6,406
" other parts of Massachusetts	5,401
" Maine	170
" New Hampshire	143
" Vermont	37

Residents of Rhode Island	16
" Connecticut	13
" other States	35
" British Provinces and foreign countries,	51
" unrecorded	7
	12,279

Occupation of Eye Patients.

Actors	3
Agents	30
Barbers	42
Blacksmiths	79
Carpenters	162
Children	2,062
Clergymen	3
Clerks	292
Dentists	2
Domestics	714
Engineers	29
Farm-work	110
Firemen	18
Fishermen	39
Home	1,031
Laborers	636
Leather workers	32
Masons	67
Mariners	54
Mechanics	416
Messengers	34
Metal work	160
Milliners	9
Mill operatives	260
Musicians	2
Painters	55

Photography	16
Policemen	6
Printers	80
Provisions	57
Railroad	32
Sewing	292
Shoemakers	163
Sisters of Charity	3
Stone cutters	206
Soldiers	8
Students	33
Tailors	109
Teachers	42
Teamsters	133
Traders	36
Trades	212
Widows	255
Wood-workers	165
Other occupations	39
Unrecorded	15
	8,339

Diseases of the Eye.

Lids.

Blepharitis	7
Blepharadenitis	420
Lippitudo	4
Hordeolum	83
Ectropium	15
Entropium	9
Trichiasis	26
Symblepharon	1
Œdema	33
Abscess	43

Emphysæma	1
Chalazion	153
Cyst	11
Verruca	13
Horn	1
Tumor	10
Nævus	3
Ptosis	12
Epithelioma	9
Herpes	1
Epicanthus	2
Pediculus	2
Eczema	14
Cuts	11
Ecchymosis	3
Acne	1
Erysipelas	2
Burn	11
Foreign body on	21
	922

Conjunctiva.

Conjunctivitis, catarrhal	1,522
" diphtheritic	2
" blenorrhoic	35
" neonatorum	17
" granular	163
" " with pannus	55
" phlyctenular	338
" traumatic	35
" strumous	31
Ophthalmia, gonorrhœal	5
Chemosis	1
Ecchymosis	42

Pterygium	66
Pinguecula	9
Hyperæmia	9
Serous, effusion into	10
Fungous granulations	2
Sympathetic infection	2
Abscess	1
Bullæ	2
Burn	12
Tumor	1
Foreign body on	25
	2,385

Cornea and Sclera.

Keratitis simplex	260
" phlyctenular	48
" interstitial	11
" punctata	2
" traumatic	26
Kerato-iritis	32
Kerato-conus	3
Ulcer of cornea	435
" " vascular	41
" " traumatic	28
" " serpens	2
Abscess of cornea	3
Abrasion of "	23
Rupture " "	3
Leucoma " "	200
Inflamed leucoma	30
Wound of cornea	26
Burn of cornea	6
Lead deposit on cornea	2
Foreign body on cornea	675

Anterior staphyloma	16
Sclero keratitis	11
Episcleritis	4
Scleritis	32
Rupture of sclera	3
Foreign body on sclera	30
	1,952

Iris and Ciliary Body.

Iritis	174
" syphilitic	16
" traumatic	8
Prolapse of iris	4
Mydriasis	18
Posterior synechia	28
Anterior "	13
Irido-dialysis	4
Foreign body on iris	1
Tumor of iris	1
Iridodonesis	8
Wound of ciliary body	4
Ciliary redness	23
Hypopion	21
Hæmorrhage into anterior chamber	9
	332

Choroid.

Choroiditis	66
" syphilitic	1
Staphyloma posterior	29
Sclerotico-choroiditis posterior	6
Irido-choroiditis	8
Irido-choroiditis sympathetic	10
Glaucoma	34

Panophthalmitis	6
Atrophy	1
Albinism	4
	165

Retina.

Retinitis	8
" albumenurica	3
" apoplectica	3
" pigmentosa	3
" punctata	1
Hæmeralopia	8
Neuro-retinitis	13
Separation of retina	25
Disease of macula lutea	1
Hæmorrhage into macula lutea	1
Embolism central artery	1
Retino-choroiditis	1
Œdema	1
Anæsthesia	1
	70

Optic Nerve.

Neuritis	31
Atrophy	49
Anæmia	1
Hyperæmia	7
	88

Vitreous.

Opacities	14
Hæmorrhage	7
Foreign body in	1
Cholesterine	1
	23

Affections of Percipient Apparatus.

Amblyopia	48
Amblyopia ex abusu	32
Muscæ volitantes	39
Scotoma	5
Hemiopia	1
Photophobia	3
	128

Lens.

Cataract, mature	154
" incipient	71
" congenital	5
" traumatic	47
" capsular	10
" lamellar	6
" posterior polar	17
" bipolar	1
" pyramidal	1
" cretaceous	5
Dislocation of lens	18
Aphakia	1
	336

Lesions of Globe of Orbit.

Microphthalmus	1
Hydrophthalmus	1
Exophthalmus	2
Phthisis bulbi	43
Rupture of globe	8
Periostitis of orbit	3
Cellulitis " "	1
Tumor " "	5

Foreign body in globe	2
Disorganized "	16
Intra ocular tumor	1
Abscess of globe	1
	84

Refraction and Accommodation.

Myopia	190
Hypermetropia	685
Presbyopia	75
Astigmatism	153
Asthenopia	77
Paralysis of accommodation	3
Spasm " "	9
	1,192

Muscular Affections and Neuroses.

Paralysis, facial	15
" third pair	18
" fourth "	1
" sixth "	10
Diplopia	14
Strabismus convergens	167
" divergens	27
" superior	2
Ciliary neuralgia	4
Insufficiency internal recti	7
Blepharo spasm	25
Neuralgia supra orbital	7
Nystagmus	10
Herpes zoster	2
	309

Lachrymal Apparatus.

Epiphora and obstruction of lachrymal ducts	201
Catarrh lachrymal sac	44
Abscess " "	54
Lachrymal fistula	4
Hemorrhage from lachrymal canal	1
Hypertrophy lachrymal gland	1
Eversion of punctum	7
Foreign body in punctum	1
	313

General Injuries.

Blows and cuts	96
Burns	28
	124

Miscellaneous.

Unfit	342
Unrecorded	91
No disease	32
Eloped	38
Referred to ear department	13
Referred to other institutions	36
Declined treatment	2
	554

Summary of Eye Diseases.

Lids	922
Conjunctiva	2385
Cornea and sclera	1952
Iris and ciliary body	332
Choroid	165
Retina	70

Optic nerve	88
Vitreous	23
Affections of percipient apparatus	128
Lens	336
Lesions of globe and orbit	84
Refraction and accommodation	1,192
Muscular affections and neuroses	309
Lachrymal apparatus	313
General injuries	124
Miscellaneous	554

OPERATIONS ON THE EYE.

Lens.

Extraction senile cataract, Græfe up	86
" other cataracts " "	2
" soft or traumatic cataract by suction	15
" senile cataract, Wecker	9
" " " Le Brun	1
Discission congenital cataract	6
" other "	2
	121

Lens Capsule.

Agnew's operation	1
Noyes's "	1
Other capsule operations	32
	34

Iris.

Iridectomy for glaucoma	8
" preparatory to cataract extraction	13
" for artificial pupil	27

Iridectomy for lamellar cataract	1
" " irido-choroiditis	3
" " anterior staphyloma	2
" " foreign body in the iris	1
Iridotomy	1
Excision of hernia of iris	7
Passavant's operation	1
Removal of foreign body from iris	1
Operation for posterior synechia	1
	66

Cornea.

Removal of foreign body	671
" " " under ether	4
Saemisch's operation for ulcus corneæ serpens	10
Paracenteses	15
Tattooing for leucoma corneæ	1
Operation for anterior synechia	1
	702

Conjunctiva.

Desmarres' operation for pterygium	23
Galvano cautery for pterygium	1
Peritomy	1
	25

Muscles.

Strabismus convergens	74
" divergens, transplanting muscle	9
" superior	4
	87

Lids.

Green's operation for trichiasis	10
Other " " "	7

Canthoplasty	1
Chalazion	53
Incision of abscess	2
Plastic operations for ectropion	4
Symblepharon	2
Excision of cyst	1
" " horn	2
" " nævus	1
" " verruca	1
" " granulations	1
Electrolysis of nævus	2
	87

Enucleation.

Enucleation for sympathetic ophthalmia	18
" " glaucoma absolutum	1
" " disorganized globe	16
" " melano sarcoma of globe	2
	37

Other Operations.

Removal of anterior portion of globe	8
" " steel from anterior chamber with electro-magnet	1
Removal of steel from globe with electro-magnet	6
" " " " vitreous " " "	1
" " " " sclera " " "	1
	17

Incision of abscess of lachrymal sac	54
" " globe for abscess of globe	1
Bowman's operation on the tear passage	84
Plastic of globe with egg membrane	1

Plastic of globe with rabbit's conjunctiva	3
Insertion of rabbit's eye in orbit	1
	144
Miscellaneous	20

Occupations of Ear Patients.

Actors	2
Agents	21
Artists	2
Bakers	13
Butchers	11
Barbers	14
Bookkeepers	20
Brakemen	13
Coachmen	20
Chemist	1
Conductors	9
Clergymen	5
Carpenters	136
Clerks	172
Dentist	1
Designers	5
Domestics	174
Drivers	29
Engineers	23
Errand boys	17
Farmers	62
Firemen	15
Fishermen	18
Home	337
Laborers	650

Letter carriers	3
Laundry	22
Inspectors	2
Janitors	8
Lawyers	3
Mariners	35
Mechanics	643
Musicians	8
Milliners	6
Merchants	7
Manufacturers	4
Mill hands	75
Nurses	23
Painters	43
Pedlers	25
Police officers	10
Porters	15
Printers	34
Seamstresses	130
Shippers	7
Soldiers	3
Students	96
Superintendents	7
Tailors	50
Teachers	19
Teamsters	101
Telegraph operators	10
Tradesmen	114
Waiters	40
Watchmen	12
Others	13
Unrecorded	12
	3,350

STATISTICAL REPORT OF THE DISEASES OF THE EAR.

Oct. 1, 1884, to Oct. 1, 1885.

Abscess of lobe	4
" in front of tragus	1
" of meatus	1
" post aural	1
Abrasion of skin of auricle	1
Atresia of meatus from cicatrices	1
" " following otitis media purulenta	3
Aspergillus	4
Bite of auricle	1
Cicatrices and loss of auricle from a burn	1
Cyst of auricle	3
Deaf-mutism	17
Deformity of auricle	1
Eczema, auricle and meatus	26
" post-aural	16
Exostosis, meatus	2
Extravasation of blood into membrana tympani	1
Fibrous tumors, both lobes	1
Fissure of lobe	3
Fistulæ auris congenitalis	1
Foreign body, meatus	24
Fracture of external meatus from a fall	1
Hæmatoma	1
Hæmorrhagic bula, membrana tympani	1
Herpes auricularis	1
Keratosis obturans	10

Obstruction of meatus, cerumen	505
Otitis externa circumscripta	76
" " diffusa	46
" media purulenta chronica	547
" " " with abscess post-aural	19
" " " " facial paralysis	4
" " " " polypus	65
" interna	8
" media acuta	216
" " " with serous accumulation	30
" " chronica catarrhalis	806
" " subacuta	95
" catarrhalis tubalis	15
" " purulenta acuta	137
" " " healed	133
Other diseases	51
Otalgia neuralgica	53
Polypus on membrana tympani	1
Psoriasis of concha	1
Relaxed membrana tympani	1
Specific ulceration of meatus and auricle	1
Tinnitus aurium	27
Traumatic rupture, membrana tympani	15
Wound of membrana tympani from hairpin	1
Unfit	306
Unrecorded	64
	3,350

Out-Patients.

Whole number of ear patients	3,350
Residents of Boston	1,146
" " other parts of Massachusetts	2,089
" " Maine	34
" " New Hampshire	39

Residents of Vermont	7
" " Rhode Island	3
" " Connecticut	2
" " other States	13
" " British Provinces and foreign countries	16
Unrecorded	1
	3,350

Ear Patients:		
Males	1,815	
Females	1,535	
Total	3,350	

STATISTICS OF DISEASES OF HOUSE PATIENTS FROM OCT. 1, 1884, TO OCT. 1, 1885.

Diseases of the Eye.

Chalazion	1
Cut of lid	1
Lippitudo	1
Epithelioma of lid	2
Lupus "	1
Blepharitis	2
Ectropion	2
Entropion	6
Trichiasis	9
Symblepharon	2
Blepharo spasm	1
	28

Conjunctivitus catarrhal	4
" phlyctenular	2
" blenorrhoic	5
" granular	23
" " with pannus	25

Conjunctivitus traumatic	1
Ophthalmia, gonorrhœal	4
" strumous	2
" neonatorum	5
	71
Keratitis, simplex	31
" phlyctenular	2
" vascular	2
" interstitial	1
" traumatic	2
" strumous	6
Kerato iritis	6
Ulcer of cornea	66
" " traumatic	4
" " serpens	7
Abscess of cornea	5
Rupture "	5
Staphyloma anterior	10
Kerato cornus	1
Epithelioma of cornea	1
	149
Leucoma corneæ	15
Foreign body in cornea	10
Fistula of cornea	1
Scleritis	1
Rupture of sclera	2
Wound in ciliary region	10
Sclero keratitis	1
Iritis	11
" rheumatic	1
" syphilitic	5
Prolapse of iris	1

Foreign body in iris	1
Posterior synechiæ	15
Anterior "	1
Irido-choroiditis	4
Retino-choroiditis syphilitic	4
Glaucoma	11
Hyalitis	1
Sympathetic ophthalmia	3
Neuritis	1
Neuro-retinitis	1
	100
Cataract, hard and soft	104
" lamellar	2
" incipient	2
" morgagnian	3
" congenital	10
" traumatic	19
" capsular	27
Dislocation of the lens	1
Sympathetic irritation	4
Phthisis bulbi	9
Foreign body in anterior chamber	2
" " " globe	6
	189
Hæmorrhage into vitreous	1
Caries and lachrymal abcess	1
Post-ocular abscess	1
Intra-ocular tumor	2
Panophthalmitis	3
Disorganized globe	4
Injury to globe	1
Microphthalmus	1

Strabismus convergens	1
" divergens	1
" superior	1
Blows and cuts	2
Burns	2
Amblyopia	1
Unrecorded, eloped, etc.	11
	33

Diseases of the Ear.

Otitis media acuta	1
" " chronica catarrhalis	2
" " purulenta	5
" " " with mastoid abscess	8
" " " meningitis	1
" " " polypus	1
Erysipelas	1
Conical projection of membrana tympani	1
	20

Total males	349
" females	241
	590

STATISTICS OF NINETY-FOUR OPERATIONS

For the Extraction of Cataract,

PERFORMED IN THE MASSACHUSETTS CHARITABLE EYE AND EAR INFIRMARY BY THE OPHTHALMIC STAFF

During the Year ending Aug. 31, 1885.

Compiled by Robert Willard, M. D.

As the title to this statement indicates, the number of extractions of cataract performed at the Infirmary for the year which closed Aug. 31, 1885, has been ninety-four. These extractions have been done by various methods. Of the eighty-six senile cataracts, seventy-four have been done by the operation of Von Græfe, modified; three, by a similar method with a preliminary iridectomy; one, by the operation of Le Brun; and eight, by that of Wecker; eight other cases comprising traumatic and soft cataracts have been operated on by the method of suction or aspiration.

The exhibition of cocaine as a local anæsthetic for the extraction of cataract was first undertaken at the Infirmary on Oct. 30, 1884, and since that date has almost superseded ether, the latter having been used but nine times in seventy-seven operations for cataract. For the past seven years efforts have been made to avoid the disagreeable and sometimes serious effects of ether, which occur during and after an operation, and with this view, patients have been encouraged to bear the temporary pain of an operation, and thus not only escape the unpleasant effect of the anæsthetic, but possibly add to the chances of a successful result. This temporary pain, the instillation of a solution of cocaine almost entirely obviates, and with a patient of but a moderate amount of courage, the operation is usually com-

pleted rapidly and without trouble. There will, however, probably be a few persons of extreme nervous susceptibility, whose dread of an operation is so great that they lose their self-control, and in these cases recourse must be had to the general anæsthetic.

It is somewhat remarkable that an agent so potent to annul the sensation of pain, without other interference with the consciousness of the patient, should have no injurious action, but thus far nothing of the kind, traceable to its use, has been experienced here.

The tolerance of the eye speculum, the diminution of hæmorrhage, and the almost complete freedom from pain during the operation, under the influence of cocaine, should have an important and favorable bearing on the successful results of cataract extraction.

In the operations by the method of Von Græfe modified, cocaine has been used fifty-one times, ether twenty-one times, and in two cases no anæsthetic. After the introduction of cocaine in October, 1884, ether was used but six times for this operation. Two patients, after the operation was begun under cocaine, became so restless and difficult to control, that the operator was compelled to stop and administer ether.

The following table gives the vision in the seventy-four cases operated on by the method of Von Græfe: —

Vision = 1.0	1	Vision = $\frac{1}{12}$	1
" = .6	3	" = $\frac{3}{60}$	1
" = .5	4	" = $\frac{2}{50}$	1
" = .4	8	" = perception of light,	4
" = .3	12	" = 0	5
" = .2	16		
" = .1	18		
	62		12
Total	74		

With the understanding that .1 represents good vision, or a successful result, we have : —

Good vision	62, or 84 per cent.	
Partial success	7 "	9 " "
Failure	5 "	7 " "
	74	100

In these operations the scoop was used nine times, vitreous was lost in two cases in considerable amount, and in thirteen there was a low form of iritis, beginning, in several instances, some days after the wound was well healed. Capsular obstruction resulted nine times, and secondary operations were done in seven cases, mostly with excellent effect. Under the heading "partial success" are five, and possibly six cases, which will be carried into the column of good vision by a secondary operation, thus giving a success of more than ninety per cent.

In three cases, a preliminary iridectomy was done, partly to ripen the cataract, and partly to avoid the possible danger of leaving a raw surface on the iris as a pathway for infection at the time of or after the extraction.

The vision in these cases was as follows : —

Vision = .4	2.
" = .1	1.

Or all successful.

Another operation, also successful, was done after the method of Le Brun, and resulted in a vision of .8 ; the eye healing with a point of anterior synechia.

The operation of Wecker was resorted to in eight cases, and with the eye in each instance under the influence of cocaine. This is a resuscitation of the principle of flap extraction, and it is done with the hope of leaving a round, movable pupil, and of avoiding the danger of septic infec-

tion, iritis and capsular obstruction. The knife used is similar to that of Græfe, but only half as wide. Antiseptics are employed before, during, and after the operation, and the neutral sulphate of eserine is instilled to prevent the prolapse of the iris. This operation presents greater difficulties in its performance than that of Von Græfe, but, if it fulfils the conditions of giving better results in vision or of insuring greater safety to the eye than the latter, it will doubtless find favor and meet with general adoption. With the advantage of the local anæsthetic cocaine and the efficient myotic eserine, this operation should have far better results than the old flap extraction. No conclusions are here drawn regarding its merits or demerits, as the number of operations is too small to warrant any generalization.

The results are here appended: —

Vision =	.3	2	Success . . .	5
" =	.2	3	Partial success . .	3
" =	<.1	2	Failure . . .	0
" =	2/50	1		
		8		8

In one case the iris was wounded during the section, and the eye when healed showed that membrane drawn upward. Two cases were followed by iritis; two suffered from a prolapse of the iris, in one of which the prolapse spontaneously subsided, in the other it was excised; each subsequently presenting the appearance of an iridectomy upward. In two others, capsular obstruction occurred, and a secondary operation was necessary to free the pupil.

The whole number of operations for senile cataract, by the foregoing methods, has been eighty-six, and the vision resulting has been as follows, viz.: —

Vision = 1	1	Vision = <.1	2
" = .8	1	" = $\frac{1}{12}$	1
" = .6	3	" = $\frac{3}{60}$	1
" = .5	4	" = $\frac{2}{50}$	2
" = .4	10	" = perception of light	4
" = .3	14	" = 0	5
" = .2	19		
" = .1	19		
	71		15

Total 86

Giving : —

Good vision,	71	or	82 + per cent.
Partial success,	10	or	12 — "
Failure,	5	or	6 "
Total,	86		100

In addition to these eighty-six cases of operation for senile cataract, there have been eight operations by suction performed on soft or traumatic cataracts, with the following results : —

Vision = 1	1	Good vision, 8, or 100 per cent.	
" = .6	1	Partial success, 0, or 0 "	
" = .5	1	Failure, 0, or 0 "	
" = .3	1		
" = .2	2		
" = .1	2		
	8	8	100

Appended are the tables.

STATISTICS OF NINETY OPERATIONS FOR CATARACT PERFORMED AT THE INFIRMARY FROM SEPT. 1, 1884, TO SEPT. 1, 1885.

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
1	M. 72 Am. Fair.	Senile. 2 years. Normal.	Sept. 3, 1884. Græfe. Ether. Slow sloughing of eye from third day. 50 days.	V. = .0
2	M. 60 Irish. Good.	Senile. 4 years. Normal.	Sept. 9, 1884. Græfe. Ether. Normal. 29 days.	V. = 0.2
3	F. 70 Irish. Good.	Senile. 2 years. Normal.	Sept. 15, 1884. Græfe. Ether. Normal. 19 days.	V. = 0.2
4	F. 64 N. F. Good.	Senile. 3 years. Normal.	Sept. 15, 1884. Græfe. Ether. Normal. 14 days. Capsule operation, Nov. 6, 1884.	V. = 0.2
5	M. 73 Am. Good.	Senile. Normal.	Sept. 17, 1884. Græfe. Ether. More bleeding from iris than usual. 12 days.	V. = 0.2
6	M. 62 Am. Good.	Senile. 2 years. Normal.	Sept. 20, 1884. Græfe. No anæsthetic. Normal. 12 days.	V. = 0.2
7	M. 72 Am. Good.	Senile. 1 year. Normal.	Sept. 20, 1884. Græfe. No anæsthetic. 19 days. Normal.	V. = 0.2
8	F. 55 Irish. Good.	Senile. 1 year. Normal.	Sept. 25, 1884. Græfe. Ether. Normal. 22 days.	V. = 0.4
9	M. 73 Irish. Good.	1½ years. Normal	Sept. 27, 1884. Græfe. Ether. Normal. 12 days. Capsule operation, Nov. 6, 1884.	V. = 03.

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
10	M. 64 Am. Good.	Senile. 2 years. Normal.	Sept. 27, 1884. Græfe. Ether. Normal. 23 days.	V. = 0.2
11	F. 58 Irish. Good.	Senile. 3 years. Normal.	Sept. 28, 1884. Græfe. Ether. Segmental cut of iris. Fourth day iritis. Pupil blocked with capsule. 38 days. Secondary operation done April 29, 1885.	V. = 0.3
12	F. 45 Irish. Good.	Senile. 2 years. Normal.	Oct. 7, 1884. Græfe. Ether. Scoop used twice. 34 days.	V. = 0.4
13	F. 65 Am. Good.	Senile. 3 years. Normal.	Oct. 11. 1884. Græfe. Ether. Lens broke into two fragments while being removed. Slight iritis. Pupil cloudy. History of myopia. 16 days.	V. = $\frac{1}{12}$
14	F. 64 B. Prov. Good.	Senile. Hyper-mature. 5 years. Normal.	Oct. 15, 1884. Græfe. Ether. Thickened capsule. Slight iritis. 18 days.	V. = 0.3
15	F. 57 Irish. Good.	Senile. 5 years. Normal.	Oct. 15, 1884. Græfe. Ether. Capsule in pupil. 13 days.	V. = 0.2
16	F. 31 Am. Good.	10 years. Normal.	Oct. 20, 1884. Græfe. Ether. Much cortical left. 14 days. Capsule op. Nov. 20, 1884.	V. = 0.1
17	F. 50 Irish. Good.	Senile. 1 year. Normal.	Oct 21, 1884. Græfe. Ether. Lens removed with scoop. Wound did not close. Nov. 12. Panophthalmitis. 97 days.	V. = .0
18	F. 66 Am. Good.	Senile. 7 years. Normal.	Oct. 30, 1884. Græfe. Cocaine. Normal. 21 days.	V. = 0.4
19	F. 69 Irish. Fair.	Senile. 2 years. Normal.	Nov. 7, 1884. Græfe. Cocaine. Much bleeding. Closed pupil. Secondary operation necessary. 20 days.	V. = light.

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
20	M. 60 Irish. Good.	Senile. 1 year. Normal.	Nov. 14, 1884. Græfe. Cocaine. Normal. 13 days.	V. = 0.1
21	M. 73 Irish. Good.	Senile. 1 year. Normal.	Nov. 15, 1884. Græfe. Ether. Operation begun under cocaine. Patient unruly. Etherized. 12 days.	V. = 0.2
22	M. 77 Am. Good.	Senile. 4 years. Normal.	Nov. 15, 1884. Græfe. Cocaine. Operation normal. Patient tore off bandage. Iritis, purulent keratitis. 22 days.	V. = .0
23	F. 54 B. Prov. Good.	Senile. 7 years. Normal.	Nov. 19, 1884. Græfe. Ether. Fluid vitreous, scoop used, lens removed in its capsule. Healing slow. 30 days.	V. = $\frac{3}{60}$
24	M. 45 Am. Good.	Morgagnian. Normal.	Nov. 30, 1884. Græfe. Cocaine. Vitreous presented. Scoop used, lens removed in its capsule unruptured. Wound healed seventh day. 10 days.	V. = 0.3
25	M. 79 Am. Good.	Senile. 3 years. Normal.	Dec. 4, 1884. Græfe. Cocaine. Wound small, enlarged. 22 days.	V. = 0.2
26	M. 67 Am. Good.	Senile. 2 years. Normal.	Dec. 4, 1884. Græfe. Cocaine. Normal. 26 days.	V. = 0.3
27	F. 64 B. Prov. Good.	Senile. 3 years. Normal.	Dec. 7, 1884. Græfe. Cocaine. Operation normal, capsular obstruction in pupil. 20 days. Secondary operation, Feb. 15, 1885.	V. = 0.2
28	F. 62 Irish. Good.	Senile. 4 years. Normal.	Dec. 9, 1884. Græfe. Cocaine. Operation normal, slight iritis. 20 days.	V. = 0.1
29	F. 60 Am. Good.	Senile. Normal.	Dec. 24, 1884. Græfe. Cocaine. Patient nervous, started several times during operation. 15 days. Healing normal. Feb. 4, 1885, capsule operation.	V. = 0.4

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
30	F. 65 Irish. Good.	Senile. 2 years. Normal.	Jan. 16, 1885. Græfe. Cocaine. Operation and healing process normal. 17 days.	V. = 1.
31	M. 44 Eng. Fair.	Senile. 3 years. Normal.	Jan. 23, 1885. Græfe. Cocaine. Operation and healing process normal. 21 days.	V. = 0.3
32	M. 65 B. Prov. Good.	Senile. 2 years. Normal.	Feb. 4, 1885. Græfe. Cocaine. Iris divided at time of section owing to movement of patient. Large nucleus, much cortical removed. 12 days.	V. = 0.4
33	M. 60 Irish. Fair.	Senile. 4 years. Normal.	Feb. 11, 1885. Græfe. Cocaine. Operation and healing normal. 17 days.	V. = 0.4
34	F. 60 Irish. Fair.	Senile. 6 years. Normal.	Feb. 22, 1885. Græfe. Cocaine. Operation normal. Eighth day struck eye by accident. Broke wound open. Mild iritis. 29 days.	V. = 0.5
35	F. 40 Eng. Poor.	Senile. Normal.	Feb. 27, 1885. Græfe. Cocaine. Operation normal, until lens was removed, when patient contracted lids and speculum on eye with great violence. Hyaloid ruptured and great loss of vitreous. Panophthalmitis. 34 days.	V. = .0
36	F. 66 Irish. Good.	Morgagnian. 5 years. Normal.	March 6, 1885. Græfe. Cocaine. Normal. 15 days.	V. = 0.1
37	F. 47 Irish. Good.	Hard. 2 years. Normal.	March 11, 1885. Græfe. Cocaine. Eserine. Knife divided iris at time of section. Nucleus small. Much cortical removed. Slight iritis Capsule in pupil. 37 days. April 8. Capsule operation.	V. = 0.6
38	M. 65 Wales. Good.	Senile. 3 years. Normal.	March 13, 1885. Græfe. Cocaine. Normal. 17 days.	V. = 0.1

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
39	M. 70 Am. Good.	Senile. 2 years. Normal.	March 20, 1885. Græfe. Cocaine. Nucleus small. Much cortical. Rheumatism. 17 days.	V. = 0.1
40	F. 65 Irish. Good.	Senile. 3 years. Normal.	March 20, 1885. Græfe. Ether. Normal. 16 days.	V. = 0.5
41	M. 71 Am. Fair.	Senile. Projection imperfect.	March 25, 1885. Græfe. Cocaine. Operation normal. Iritis. Rheumatism. 24 days.	V. = light.
42	F. 70 Irish. Good.	Senile. 2 years. Normal.	April 14, 1885. Græfe. Cocaine. Eserine. Iodoform. Iris divided at time of section. Normal healing. 20 days.	V. = 0.5
43	M. 65 Irish. Good.	Senile. 2½ years. Normal.	April 14, 1885. Græfe. Cocaine. Operation normal. Iritis. 30 days.	V. = 0.1
44	M. 70 Irish. Poor.	Senile. 3 years. Normal.	April 14, 1885. Græfe. Cocaine. Patient difficult to control. Much vitreous lost. 26 days.	V. = 0.1
45	F. 66 Am. Good.	Senile. 2 years. Normal.	April 21, 1885. Græfe. Cocaine. Large black lens removed with scoop. 25 days.	V. = 0.2
46	F. 77 Am. Poor.	Senile. Mature. Normal.	April 22, 1885. Græfe. Cocaine. Iris divided at time of section. Patient very unruly. 19 days.	V. = 0.1
47	F. 48 Irish. Fair.	Senile. Mature. Normal.	April 23, 1885. Græfe. Cocaine. Wound enlarged. Scoop used. No vitreous lost. Senile delusions. Gets out of bed, tears off bandage, etc., etc. 37 days.	V. = 0.3
48	F. 56 Am. Fair.	Senile. 3 years.	April 28, 1885. Græfe. Cocaine. Cramps of patient stopped operation before cortical was removed. May 19. Bleeding into ant. chamber. Hysterical. 38 days.	V. = 0.1

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
49	F. 65 Irish. Fair.	Senile. Mature. Normal.	April 30, 1885. Græfe. Cocaine. Large black lens removed with scoop. 32 days.	V. = 0.6
50	F. 80 Scot. Poor.	Hyper-Mature. Projection doubtful in every direction except upwards.	May 2, 1885. Græfe. Cocaine. Very large old lens removed with scoop. No vitreous lost. 23 days.	V. = light.
51	F. 65 Am. Good.	Senile. 6 years. Normal.	May 5, 1885. Græfe. Cocaine. Iris divided at time of section. Lens removed with scoop. Free bleeding. May 12. Blood in ant. chamber. 22 days. May 29. Fresh hemorrhage in ant. chamber.	Sept. 4, 1885. V. = 0.1
52	F. 65 Irish. Poor.	Senile. 3 years. Normal.	May 9, 1885. Græfe. Cocaine. Normal. 17 days.	V. = 0.1
53	M. 43 Eng. Good.	Mature. 4 years. Normal.	May 14, 1885. Græfe. Cocaine. Normal operation. Low form of iritis. 25 days.	V. = 0.2
54	F. 66 Am. Poor.	Senile. Mature. Normal.	May 19, 1885. Græfe. Ether. Operation normal. 11 days.	V. = 0.1
55	M. 75 Am. Fair.	Senile. Mature. Normal.	May 20, 1885. Græfe. Cocaine. Large lens. Patient troublesome during healing. 19 days.	V. = 0.4
56	F. 75 Irish. Rheu.	Senile. Mature. Normal.	May 21, 1885. Græfe. Cocaine. Operation normal. Patient restless. removed bandage frequently. 18 days.	V. = 0.2
57	M. 63 Am. Good.	Senile. Mature. Normal.	June 3, 1885. Græfe. Cocaine. Operation normal. 12 days.	V. = 0.5
58	M. 50 Irish. Good.	Senile. Mature. Normal.	June 4, 1885. Græfe. Cocaine. Operation normal. 20 days.	V. = 0.3

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
59	F. 61 B. Prov. Poor.	Senile. 3 years. Normal.	June 4, 1885. Græfe. Cocaine. Operation normal. Entropion. Iritis. 39 days.	V. = 0.1
60	F. 74 Am. Fair.	Senile. Mature. Normal.	June 8, 1885. Græfe. Cocaine. Operation normal. Some capsule in pupil. 29 days.	V. = 0.1
61	M. 66 Irish. Fair.	Senile. 5 years. Normal.	June 16, 1885. Græfe. Cocaine. Operation normal. 21 days.	V. = 0.3
62	M. 56 Eng. Fair.	Senile. 2 years. Normal.	June 17, 1885. Græfe. Cocaine. Operation normal. 20 days.	V. = 0.4
63	F. 80 Am. Fair.	Senile. Mature. Normal.	June 19, 1885. Græfe. Cocaine. Operation normal. Patient feeble, childish, conjunctivitis, low form of iritis, pupil closed with dense mass of capsule; declined secondary operation. 50 days.	V. = light.
64	M. 56 B. Prov. Good.	Senile. 15 years. Normal.	June 26. 1885. Græfe. Cocaine. Operation normal. Seventh day kerato-iritis. Capsule in pupil; to return for secondary. 43 days.	V. = $\frac{2}{50}$
65	F. 45 Irish. Fair.	Mature. 4½ years. Normal.	June 27, 1885. Græfe. Cocaine. Very restless during operation. July 4. Patient struck eye. Wound reopened; free hemorrhage. 39 days.	V. = 0.3
66	F. 50 Eng. Poor.	Mature. 6 years. Normal.	June 28, 1885. Græfe. Ether by patient's request. Operation normal. Prolonged emesis; bandage disturbed, and wound open and bleeding for forty-eight hours. Panophthalmitis. 67 days.	V. = 0.
67	F. 72 Irish. Fair.	Senile. 2 years. Normal.	July 4, 1885. Græfe. Cocaine. Restless during operation. 48 days.	V. = 0.1

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
68	M. 70 B. Prov. Poor.	Senile. Mature. Normal.	July 16, 1885. Græfe. Cocaine. Operation normal. 15 days.	V. = 0.2
69	F. 57 B. Prov. Good.	Senile. 3 years. Normal.	July 23, 1885. Græfe. Cocaine. Operation normal. Some capsule in pupil. 15 days.	V. = 0.2
70	M. 74 Irish. Poor.	Senile. 6 years. Normal.	Aug. 11, 1885. Græfe. Ether. Operation begun under cocaine. Very restless; rolled eye up; ether given — eserine — when operation was completed. 16 days.	V. = 0.1
71	F. 47 Am. Fair.	Senile. 3 years. Normal.	Aug. 20, 1885. Græfe. Cocaine. Eserine and atropine instilled at time of operation. Slight iritis while healing. 18 days.	V. = 0.3
72	F. 45 Irish. Good.	Mature. 2½ years. Normal.	Aug. 21, 1885. Græfe. Cocaine. Operation normal. Healed with capsule in pupil. 18 days. Oct. 8, 1885. Capsule operation.	V. = 0.1
73	F. 75 Am. Fair.	Senile. Mature. Normal.	Aug. 23, 1885. Græfe. Cocaine. Operation normal. Some cortical left. Capsule. 30 days. Oct. 8, 1885. Capsule operation.	V. = 0.3
74	F. 55 Irish. Good.	Senile. Mature. Normal.	Aug. 26, 1885. Græfe. Cocaine. Operation and healing process normal. 12 days.	V. = 0.6

CATARACT OPERATIONS IN WHICH A PRELIMINARY IRIDECTOMY WAS DONE.

No.	Sex. Age. Nation. Healltli.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Proeess. Remarks. Duration of Treatment.	Vision.
1	M. 68 Irish. Good.	Senile. 2 years. Normal.	March, 1884. Preliminary iridectomy. Nov. 8, 1884. Græfe cut. Cocaine. Operation normal. 19 days.	V. = 0.1

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
2	M. 51 Irish. Good.	Senile. 3 years. Normal.	Nov. 16, 1884. Preliminary iridectomy. Nov. 29, 1884. Græfe cut. Ether. Operation normal. 20 days.	V. = 0.4
3	M. 73 Eng. Fair.	Senile. Mature. Normal.	Aug. 7, 1885. Preliminary iridectomy. Aug. 24, 1885. Græfe cut. Cocaine. Operation normal. 14 days.	V. = 0.4

LE BRUN'S OPERATION.

1	F. 55 Irish. Good.	Senile. 6 years. Normal.	Aug. 13, 1885. Le Brun. Cocaine. Operation normal. One central anterior synechia. 15 days.	V. = 0.8

WECKER'S OPERATION.

1	F. 80 Am. Good.	Senile. 10 years. Projection doubtful up and in.	April 3, 1885. Wecker up. Cocaine. Iris wounded slightly. Eserine after operation. Iodoform. Iris drawn up. 15 days.	V. = $\frac{2}{50}$
2	M. 69 Irish. Good.	Senile. 2 years. Normal.	April 11, 1885. Wecker up. Cocaine. Operation normal. 18th. Pupil full of cortical. 23d. Iritis. 22 days.	V. = 0.3
3	F. 85 Am. Fair.	Senile. 2 years. Projection doubtful down and out.	April 15, 1885. Wecker up. Cocaine. Operation normal. Round central pupil. 20 days.	V. = 0.3
4	M. 65 Irish. Fair.	Senile. 5 years. Normal.	April 18, 1885. Wecker up. Cocaine. Operation normal. Eserine, iodoform. Central pupil. Capsule in pupil. May 9th. Discission. 25 days.	V. = 0.2
5	F. 70 Irish. Good.	Senile. 2 years. Normal.	May 2, 1885. Wecker up. Cocaine. Operation normal. May 9th. Pupil blocked. Capsule in pupil. May 18. Pupillary membrane incised. 20 days.	V. = 0.2

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthsia. Healing Process. Remarks. Duration of Treatment.	Vision.
6	M. 58 Irish. Good.	Senile. 5 years. Normal.	May 12, 1885. Wecker up. Cocaine. Eserine. Operation normal. Iritis. Irregular pupil. 39 days.	V. = 0.2
7	F. 57 Irish. Good.	Senile. 3 years. Normal.	May 14, 1885. Wecker up. Cocaine. Patient moved during operation, causing prolapse of iris, which could not be replaced. Ultimately iris folded itself under sclera, giving eye the appearance of an iridectomy upwards. 49 days.	V. = < 0.1
8	F. 68 Irish. Good.	Senile. 2½ years. Normal.	May 20, 1885. Wecker up. Cocaine. Much iris pigment carried away. Operation otherwise normal. Hernia of iris excised. Upper part of cornea hazy. 36 days.	V. = < 0.1

SUCTION.

1	M. 22 Irish. Good.	Traumatic. Recent.	Dec. 15, 1884. Suction. Cocaine. 27 days.	V. = 0.1
2	F. 18 Am. Good.	Soft. 2 months. Normal.	Jan. 7, 1885. Suction. Ether, by patient's request. Thin ring of capsule in pupil. 10 days.	V. = 0.6
3	M. 38 Irish. Good.	Traumatic. Recent.	Jan. 8, 1885. Suction. Cocaine. Slow healing, from bruised state of eye. 33 days.	V. = 0.5
4	M. 9 Am. Good.	Traumatic. 3 months. Normal.	Jan. 11, 1885. Suction. Cocaine. 6 days.	V. = 0.1
5	F. 16 Irish. Good.	Traumatic. 6 months. Normal.	Jan. 30, 1885. Suction. Ether. 10 days.	V. = 0.3

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
6	M. 18 Am. Good.	Traumatic. 1 year. Normal.	Feb. 11, 1885. Suction. Cocaine. 5 days.	V. = 1.
7	M. 37 Eng. Good.	Traumatic.	April 16, 1885. Suction. Cocaine. Dense capsular mass formed in pupil. Divided June 5 and 28. Low form of sclero-keratitis from time of entrance, April 6 to July 7. 95 days.	V. = 0.2
8	M. 39 Eng. Good.	Traumatic. 6 days.	June 21, 1885. Suction. Cocaine. 19 days.	V. = 0.2

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OF THE

Massachusetts Charitable Eye and Ear Infirmary,

1886-87.

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REPORT OF THE MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1886.

In behalf of the Managers of the Massachusetts Charitable Eye and Ear Infirmary, we herewith present the report of the surgeons for the year ending Sept. 30, 1886. The report records another increase in the number of patients, 12,399 having been treated during the past year, the largest yearly number in the history of the Infirmary. Such an increase, however, is only what was to be expected. It reminds us again, with its usual annual iteration, that to hold our own, we must constantly advance.

To meet the growing demand upon us, the surgeons have desired for several years past, an increase in the number of beds. Heretofore it has been impossible to grant their request. Now, however, owing to the greater liberality of the Commonwealth in its annual donation, it has become possible to do so, and the Board of Managers have accordingly issued orders to increase the number of beds from sixty, the present number, to seventy for the coming year.

As a welcome evidence of private sympathy and an earnest of continued public support, we record, with sincere grati-

tude, the recent generous bequest of Mr. Richard Perkins, of $10,000.

As to the subject-matter of the report, we would call attention particularly to the very full and interesting account of the cataract operations as prepared by Dr. Williams. In these operations of the past year, the drug cocaine alone has been used, to the entire exclusion of ether. The results are extremely satisfactory, the successful operations being 89% of the whole for the year, as against 82% for the year before and 71% for the year previous to the introduction of this anæsthetic.

We would here take the opportunity to express again the thorough appreciation by the Board of Managers of the skill and devotion of the surgeons who give to this charity gratuitously so much of their valuable time.

In conclusion, it is the painful duty of the Managers to record the death of their honored President, Dr. Charles D. Homans, one whose loss is not theirs alone, but the whole city's. In the words of the resolutions passed by the Board at the time of his decease, "His constant attendance at our sessions, notwithstanding his many and pressing calls of professional duty elsewhere, evinced the deep interest which he felt in this charity, and his wise counsels will ever be remembered by us with respect and gratitude."

PERCIVAL LOWELL.
HARCOURT AMORY.

REPORT OF THE SURGEONS.

To the Managers of the Massachusetts Charitable Eye and Ear Infirmary,

For the Year ending Oct. 1, 1886.

Gentlemen, — The following pages of statistics record the work done by the surgeons at the Infirmary during the past year.

The number of new patients treated has been 12,399, which is 120 more than the year before. This is less than the usual annual increase, and may be accounted for by the greater care which has been taken to exclude those patients from the clinics who are able to pay a fee and who are not proper objects of charity. It would be an advantage to the Infirmary, both in allowing more time and attention to the deserving poor, and also in protecting the surgeons from imposition, if some measures could be adopted to make this exclusion more thorough. The number of residents of Massachusetts who have received gratuitous treatment at the Infirmary during the past year is 11,442. This number is so far beyond the expectation of the founders of the institution that it would have been impossible to properly care for them without the liberal assistance which has been given; and even now it is necessary to limit the number of beds assigned to house patients to the most urgent cases.

The largest class of patients have some acute disease of the external portions of the eye, caused by exposure during work or by unhealthy surroundings, and in most of these cases a proper and timely treatment is sufficient to restore

the eyes to usefulness and the patients to their work. The next largest class includes those troubles which require the help of glasses, especially for near work.

Cocaine has been used to produce local anæsthesia in every case of cataract operation and in many of the minor operations with great success; and not only is the number of cataract operations greater this year than ever before, but also the percentage of good results is the highest in the record of the Infirmary. The thanks of the surgeons are especially due to all the officers of the Infirmary whose skilled and ready help has contributed largely to the good results.

HASKET DERBY.
HENRY L. SHAW.
F. P. SPRAGUE.
B. JOY JEFFRIES.
ROBERT WILLARD.
CLARENCE J. BLAKE.
CHAS. H. WILLIAMS.

STATISTICS.

October 1, 1885, to October 1, 1886.

Classification of Patients, Diseases, and Operations.

House Patients.

Eye Patients:		
Males	338	
Females	223	
	—	561
Ear Patients:		
Males	6	
Females	13	
	—	19
Total House Patients		580

Out-Patients.

Eye Patients:		
Males	4,512	
Females	4,046	
	—	8,558
Ear Patients:		
Males	1,735	
Females	1,526	
	—	3,261
Total Out-Patients		11,819
Total number of patients treated during the year,		12,399

Eye Patients.

Residents of Boston	4,741
" other parts of Massachusetts	3,536
" Maine	97
" New Hampshire	85
" Vermont	18
" Rhode Island	10
" Connecticut	12
" other States	23
" British Provinces	32
" Unrecorded	4
	8,558

Occupation of Eye Patients.

Actors	1
Agents	26
Barbers	28
Blacksmiths	84
Carpenters	140
Children	2,087
Clergymen	3
Clerks	346
Dentists	4
Domestics	753
Engineers	28
Farmers	97
Firemen	25
Fishermen	27
Hatters	7
Home	1,012
Laborers	680
Leather workers	44
Masons	73

Mariners	47
Mechanics	345
Messengers	28
Metal workers	141
Milliners	14
Mill operatives	268
Musicians	17
Painters	83
Photographers	6
Policemen	4
Printers	84
Provision dealers	66
Railroad	45
Rubber workers	24
Saloon keepers	15
Sewing	286
Shoemakers	152
Sisters of charity	1
Stone cutters	177
Soldiers	4
Students	42
Tailors	93
Teachers	31
Teamsters	130
Traders	48
Tradesmen	233
Widows	226
Wood workers	108
From the work-house	1
From other hospitals	1
Other occupations	57
Unrecorded and unfit	316
	8,558

Diseases of the Eye.

Lids.

Abscess	37
Blepharitis	16
Blepharadenitis	471
Burn	14
Chalazion	196
Cuts	15
Cyst	12
Ecchymosis	7
Ectropion	25
Entropion	8
Eczema	89
Epicanthus	2
Epithelioma	8
Foreign body in	46
Herpes	2
Hordeolum	59
Horn	2
Lippitudo	7
Nævus	3
Œdema	42
Ptosis	15
Pediculus	1
Symblepharon	6
Trichiasis	28
Tumor	3
Verruca	7
Total	1,101

Lachrymal Apparatus.

Abscess	55
Catarrh lachrymal sac	34
Epiphora and obstruction of lachrymal ducts	166
Eversion of punctum	5
Foreign body in punctum	2
Hypertrophy of lachrymal gland	1
Lachrymal fistula	2
Mucocele	12
Total	277

Conjunctiva.

Abscess	1
Bullæ	1
Burn	16
Chemosis	1
Conjunctivitis, cartarrhal	1,707
" diphtheritic	1
" purulent	61
" neonatorum	30
" granular	148
" " with pannus	96
" phlyctenular	281
" traumatic	32
" strumous	27
Cut of	1
Ecchymosis	53
Foreign body in	28
Hyperæmia	25
Œdema of	2
Pinguecula	14
Pterygium	74
Tumor	4
Total	2,603

Cornea and Sclera.

Abrasion	45
Abscess	10
Anterior staphyloma	16
Burn	20
Fistula	1
Foreign body	691
Inflamed leucoma	52
Keratitis simplex	212
" phlyctenular	48
" interstitial	22
" punctata	2
" traumatic	19
Kerato-conus	5
Kerato-iritis	20
Lead deposit on cornea	2
Leucoma of cornea	249
Rupture " "	4
Ulcer " "	472
" vascular	68
" traumatic	27
Ulcus serpens	5
Wound of cornea	41
Abscess of sclera	1
Episcleritis	10
Foreign body	9
Rupture of sclera	3
Scleritis	40
Sclero-keratitis	8
Total	2,102

Iris and Ciliary Body.

Coloboma of iris	2
Ciliary redness	25
Foreign body on iris	2
Hæmorrhage into anterior chamber	21
Hypopion	25
Irido-dialysis	7
Iridodonesis	2
Iritis	170
" syphilitic	19
" traumatic	9
Mydriasis	23
Prolapse of iris	10
Synechia, anterior	22
" posterior	31
Tumor of iris	1
Tumor of ciliary body	1
Wound of ciliary body	6
	376

Choroid.

Albinism	1
Atrophy	5
Choroiditis	69
Irido-choroiditis	5
Irido-choroiditis sympathetic	8
Panophthalmitis	3
Sclerotico-choroiditis posterior	11
Staphyloma posterior	25
Glaucoma	33
	160

Lens.

Aphakia	4
Dislocation of	16
Foreign body on	1
Cataract, mature	151
" bipolar	9
" capsular	10
" congenital	13
" cretaceous	6
" incipient	181
" lamellar	5
" posterior polar	7
" pyramidal	1
" traumatic	43
	447

Vitreous.

Foreign body in	1
Hæmorrhage into	7
Hyalitis	1
Muscae volitantes	19
Opacities	20
	48

Retina.

Degeneration of arterial walls	1
Embolism of central artery	1
Hæmorrhage into macula	2
Neuro-retinitis	11
Retinitis	6
" albumenurica	5
" apoplectica	4
" pigmentosa	6
Separation of retina	8
	44

Optic Nerve.

Atrophy	59
Hyperæmia	10
Neuritis	31
	100

Eyeball and Orbit.

Abscess of globe	10
Disorganized globe	8
Exophthalmus	3
Foreign body in	4
Hydrophthalmus	7
Microphthalmus	3
Phthisis bulbi	29
Rupture of globe	4
Tumor " "	9
Abscess of orbit	2
Cellulitis " "	1
Periostitis " "	1
Tumor " "	5
	86

Refraction and Accommodation.

Asthenopia	61
Astigmatism	245
Hypermetropia	807
Myopia	218
Paralysis of accommodation	5
Presbyopia	114
Spasm of accommodation	27
	1,477

Muscular Affections and Neuroses.

Blepharo spasm	15
Ciliary neuralgia	5
Diplopia	16
Herpes zoster frontalis	2
Insufficiency of internal recti	9
Neuralgia supra orbital	14
" external rectus	1
Nictitation	2
Nystagmus	20
Paralysis of facial	7
" third pair	14
" fourth pair	1
" sixth pair	6
Strabismus convergens	164
" divergens	27
	303

Affections of the Percipient Apparatus.

Amblyopia	45
" ex abusu	34
" hysterical	1
Hemeralopia	4
Hemiopia	1
Nyctalopia	1
Photophobia	3
Scotoma	6
	95

General Injuries.

Blows and cuts	124
Burns	22
	146

Miscellaneous.

Declined treatment	7
Eloped	33
No disease	35
Referred to other institutions	38
Referred to ear department	20
Unfit	222
Unrecorded	94
	449

Summary of Eye Diseases.

Eyelids	1,101
Lachrymal apparatus	277
Conjunctiva	2,603
Cornea and sclera	2,102
Iris and ciliary body	376
Choroid	160
Vitreous	48
Lens	447
Retina	44
Optic nerve	100
Lesions of eyeball and orbit	86
Refraction and accommodation	1,477
Muscular affections and neuroses	303
Affections of the percipient apparatus	95
General injuries	146
Miscellaneous	449

OPERATIONS ON THE EYE.

Lids.

Canthoplasty	2
Chalazion	72

Diffenbach's operation for ectropion	6
Excision of cyst	4
" " epithelioma	2
" " new growth	4
" " horn	1
" " verruca	2
Electrolysis of nævus	5
Green's operation for trichiasis	10
Other " " "	14
Incision of abscess	28
Plastic operation for ectropion	3
Symblepharon	1
	154

Conjunctiva.

Desmarre's operation for pterygium	28
Excision of tumor	1
Peritomy	3
	32

Cornea.

Abscision of anterior staphyloma	2
Paracenteses	10
Removal of foreign body	702
Saemisch's operation for ulcus serpens	4
	718

Iris.

Excision of hernia of iris	3
Iridectomy for artificial pupil	24
" anterior synechia	2
" chronic iritis	2
" preparatory to cataract extraction	12
" glaucoma	14

Iridotomy	2
Passavant's operation	1
	60

Lens.

Discission of congenital cataract	4
Extraction of dislocated lens	2
" senile cataract, Græfe's operation	86
" " " Wecker's "	3
" " " Le Brun's "	1
" " " modified flap "	12
" soft or traumatic cataract by suction	7
Capsule operations, Agnew's	4
" " other	25
	144

Enucleation.

Enucleation for disorganized globe	3
" " melano sarcoma of globe	2
" " sympathethic ophthalmia	27
Evisceration	2
	34

Muscles.

Strabismus convergens	82

Other Operations.

Bowman's operation on the tear passage	10
Incision of abscess of lachrymal sac	16
Plastic of fish cornea	1
Removal of anterior portion of eyeball	3
" " steel from anterior chamber with electro-magnet	2
Removal of steel from posterior chamber with forceps,	1
	33

Ear Patients.

Out-Patients.

Residents of Boston	1,789
" " other parts of Massachusetts	1,376
" " Maine	23
" " New Hampshire	26
" " Vermont	5
" " Rhode Island	6
" " Connecticut	1
" " other States	12
" " British Provinces	21
Unrecorded	2
	3,261

Occupations of Ear Patients.

Agents	15
Artists	1
Barbers	17
Book-keepers	24
Butchers	13
Carpenters	123
Cigar makers	14
Clergymen	4
Clerks	206
Domestics	203
Drivers	31
Engineers	20
Engravers	3
Errand boys	16
Farmers	51
Farm hands	11
Firemen	15
Fishermen	18

Home	266
Housekeepers	33
Janitors	3
Jewellers	5
Laborers	727
Lamp-lighters	2
Leather workers	26
Letter carriers	1
Mariners	35
Mechanics	487
Milliners	7
Mill hands	55
Musicians	7
News dealers	4
Nurses	13
Painters	46
Pedlers	26
Physicians	4
Police officers	4
Printers	38
Railroad	29
Seamstresses	145
Shoemakers	135
Students	75
Tailors	53
Teachers	16
Teamsters	88
Traders	93
Watchmen	14
Other occupations	35
Unrecorded	4

STATISTICAL REPORT OF THE DISEASES OF THE EAR.

OCT. 1, 1885, TO OCT. 1, 1886.

Abscess of lobe	1
" " meatus	6
Abrasion of meatus from hair-pin	1
Aspergillus	3
Atresia of meatus following otitis media purulenta	5
Congestion of auricle	1
Cyst "	1
Deaf-mutism	11
Deformity of auricle	3
Eczema of auricle and meatus	32
" post-aural	4
Ear-ring removed from lobe	1
Fibrous tumor of lobe	2
Fissure of lobe	1
Foreign body in meatus	35
Frost bite of auricle	3
Hæmatoma	1
Hæmorrhagic bula, membrana tpmpani	1
Hæmorrhage into tympanum	1
Injury to auricle	2
Keratosis obturans	4
Lacerated meatus	1
Obstruction of meatus with cerumen	521
Otitis externa circumscripta	66
" " diffusa	54
" media purulenta chronica	547
" " " with post-aural abscess	15
" " " " facial paralysis	4

Otitis media purulent with polypus	74
" interna	6
" media acuta	228
" " " with serous accumulations	23
" " catarrhalis chronica	793
" " subacuta	58
" catarrhalis tubalis	17
" media purulenta acuta	98
" " " healed	107
Other diseases	51
Otalgia neuralgica	39
Polypus on superior wall of meatus	1
Tinnitus aurium	14
Traumatic rupture, membrana tympani	16
Wound of membrana tympani from toothpick	1

Operations on the Ear.

Abscess of lobe incised	1
" " meatus "	8
" post-aural incised	14
Foreign bodies	10
Fibrous tumor of lobe	2
Hemorrhagic bula, membrana tympani	2
Paracentesis, membrana tympani	15
Polypus, torsion	3
" snare	22
Sequestrum removed from meatus	5
Shaft of screw ear-ring removed from lobe	1
Supra-aural abscess	1
	84

Statistics of Diseases of House Patients.

Eye Patients.

Abscess of cornea	7
Atrophy of optic nerve	4
Burns and cuts	3
Blepharoadenitis	2
Caries and lachrymal abscess	2
Cataract	178
" traumatic	15
" capsular	23
" congenital	7
" posterior polar	1
Choroiditis	1
Conjunctivitis, catarrhal	2
" granular	10
" " with pannus	40
" phlyctenular	1
" purulent	13
" traumatic	2
" diphtheritic	1
Cyst of eyebrow	1
Dislocation of lens	4
Disorganized globe	15
Ectropion	1
Enchondroma	1
Entropion	5
Epicanthus	1
Epithelioma of eyelid	3
Foreign body in cornea	7
" " " anterior chamber	2
" " " eyeball	2
Glaucoma	12
Hydrophthalmus	1

Injury to globe	7
Intra-ocular tumor	2
Irido-choroiditis	1
Iris, prolapse of	1
Iritis, simple	5
" rheumatic	2
" syphilitic	8
" chronic	5
" serous	1
Keratitis, simplex	13
" phlyctenular	3
" interstitial	6
" strumous	2
" traumatic	13
" vascular	6
Kerato-iritis	3
Leucoma of cornea	10
Lippitudo	2
Molluscum contagiosum	1
Neuritis	1
Neuro-retinitis	1
Orbital abscess	1
Panophthalmitis	4
Paralysis third pair	1
Phthisis bulbi	7
Scleritis	3
Sclero-keratitis	1
Sclerotico-choroiditis posterior	1
Staphyloma anterior	8
Strabismus convergens	2
" divergens	2
Strabismus inferior	1
Symblepharon	1
Sympathetic irritation	4

Sympathetic ophthalmia	3
Synechia, anterior	1
" posterior	7
Trichiasis	3
Ulcer of cornea	57
" " traumatic	5
" " serpens	5
Wound in ciliary region	3
Wound of cornea	6
Unrecorded, eloped, etc.	3
	561

Ear Patients.

Caries of mastoid bone	1
Eczema of auricle	1
Otitis media acuta simplex	1
" " chronica catarrhalis	2
" " purulenta acuta	2
" " " chronica	7
" " " with mastoid abscess	4
" externa diffusa	1
	19

REPORT OF ONE HUNDRED AND EIGHT OPERATIONS

FOR THE

Extraction of Cataract,

DONE AT THE MASSACHUSETTS CHARITABLE EYE AND EAR INFIRMARY BY THE OPHTHALMIC SURGEONS DURING THE YEAR ENDING AUG. 31, 1886.

COMPILED BY CHARLES H. WILLIAMS, M. D.

In the one hundred and eight cases of cataract operation performed during the past year, various methods of operating have been used. The modified Græfe in eighty-five cases, the Wecker in three, Le Brun in one, a modified flap operation in twelve, and suction in seven. In every case cocaine has been used to produce anæsthesia, and in only one case of a very nervous patient was it found necessary to supplement this by ether.

If we compare the results of the operations for the past year with those of the two preceding years, we find a decided gain; and this seems to be due, in large part, to the use of cocaine, which gives a perfectly satisfactory anæsthesia without any of the unpleasant after-effects of ether.

In the following table the results of all the Græfe operations for the last three years are compared, and it will be seen that those done with ether give the lowest percentage of good result, while those done with cocaine give the highest.

Græfe Operations for the Extraction of Cataract.

	With ether.			Without ether, no anæsthetic.			With cocaine.		
	% of good vision. V = 1. to 0.1.	Partial success.	Failure.	% of good vision.	Partial success.	Failure.	% of good vision.	Partial success.	Failure.
Year ending Aug. 31, 1884	78	18	4	78	14	8			
Year ending Aug. 31, 1885	77	9	14				87	9	4
Year ending Aug. 31, 1886							89	7	4

In the year 1884 the percentage of good vision, with and without ether, was the same (78%). In 1885 the percentage of good vision, with ether, remained about as before (77%), but with cocaine it was raised to 87%; and during the past year, with a much larger number of cases, it has risen to 89%. Not only is a better average result obtained by the use of cocaine, but the time of the surgeon is not wasted by lengthy etherizations, and the cost to the Infirmary is much less than that of ether.

A number of bad results from this drug have been reported by various observers; but of all the operations done at the Infirmary, no injurious result has been recorded, if we except one case (No. 24), where a suspicion of trouble may be explained by the unusual amount of manipulation to which the eye was subjected. The strength of the solution used has been two or four per cent, made up in a five per cent solution of boric acid.

In comparing the results of operations here and elsewhere, one disadvantage is the short stay which the patients make at the Infirmary, for as soon as it is safe for them to go, they are sent home to make room for others. The average stay of all the cases of Græfe operation for the past year was 20.7 days; and in those cases in which an opportunity offered to make a second examination of their vision at a later date, a marked improvement was found.

In order to get an idea of the normal length of treatment and the vision at the time of discharge, let us take the sixty-eight cases of Græfe extraction, in which no complication was noted, either in the operation or in the convalescence.

SIXTY-EIGHT UNCOMPLICATED CASES OF GRÆFE OPERATION.

Average stay at Infirmary	18 days.
Average vision at time of discharge . . .	V.= 0.24

Of these uncomplicated cases, twenty-eight returned for a second examination, at intervals varying from five days to one year.

TWENTY-EIGHT UNCOMPLICATED CASES OF GRÆFE OPERATION.

Average stay at Infirmary	17 days.
Average vision at time of discharge . . .	V. = 0.19
Average vision at date of second examination .	V. = 0.37

In these cases no treatment was needed after they left the Infirmary, and the gain in vision may be taken as representing the natural increase in the strength of the eyes. Only three operations by Wecker's method have been done during the past year. In the first, there was a small loss of vitreous and subsequent iritis; in the second, a hernia of the iris into the wound, which was excised; and in the third, slight adhesions of the iris to the capsule. One operation was done by Le Brun's method, which was followed by slight iritis. Twelve operations were done by a modification of the old flap method.

In these modified flap operations the corneal wound was made upward, so as to include a little more than one third of the circumference, and was placed in the cornea close to the sclero corneal margin; the capsule was divided by a T-shaped incision, and the lens extracted. In two cases eserine was used after the operation, to prevent a hernia of the iris, and in all but one of the cases a solution of iod-hydrargyrate of potassium, 1 to 10,000, was used to wash out the conjunctival sac before operating, the instruments being carefully wiped on a freshly boiled towel. In the case where no antiseptic was used an infiltration of the cornea and œdema of the conjunctiva occurred.

If we compare the uncomplicated cases of this operation with the uncomplicated Græfe operations we get a better result, but the numbers are too small as yet to place much dependence upon them.

AVERAGE OF UNCOMPLICATED CASES OF CATARACT EXTRACTION, WITH COCAINE.

	Length of treatment.	Vision at time of discharge.	Vision at subsequent examination.
Græfe	17 days	0.19	0.37
Modified flap . .	14.5 "	0.31	0.40

In the complicated cases of flap operation, one loss of vitreous occurred from a spasmodic contraction of the muscles of the eyeball; the lens was at the same time displaced downward, and was removed with the scoop. In another, the iris prolapsed into the wound after the extraction of the lens, and as eserine did not reduce it, an iridectomy was done, followed by a small loss of vitreous. In one case there was a slight iritis, and in another the wound was reopened by hitting the eye against a table on the fifth day.

The last of the cases of modified flap extraction (No. 16) shows how a normal convalescence may go on under unfavorable conditions.

The patient was absolutely deaf and had cataract in each eye, so that no communication could be had with him. The operation passed off well, but during the afternoon he persisted in raising his bandage. The next morning, twenty-four hours after the operation, he was found dressed, with the bandage pushed to the top of his head and both eyes open. At this time the wound was well united, and the anterior chamber re-established. No further attempt was made to keep the eyes bandaged, as he would not leave the bandage in place; the room was kept dimly lighted, so that he might not run against the furniture as he walked about. No unusual redness or pain was noticed in the eye, and the convalescence was normal; the patient being discharged at the end of fourteen days, with vision $= 0.1$, and some capsule in the pupil. The final results of all the operations for cataract are given in the following table: —

	Græfe.	Wecker.	Le Brun.	Modified flap.	Suction.
V.=1.	3				
0.9					
0.8	1			1	
0.7	2			1	
0.6	2				
0.5	5			1	1
0.4	13			1	1
0.3	16	1		2	
0.2	21	1		2	2
0.1	13		1	2	1
<0.1	4				2
Counts fingers,		1			
Perception of light,	2			2	
0.0	3				
	85	3	1	12	7

Appended are the statistics.

STATISTICS OF CATARACT EXTRACTIONS, WITH IRIDECTOMY, FOR THE YEAR ENDING AUG. 31, 1886.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	M. 58 Irish. Good.	2 years. Normal.	Sept. 1, 1885. Græfe. Cocaine. O. S. Normal. 23 days. Capsule operation Oct. 8, 1885.	Sept. 24, 1885. V. = 0 5
2	F. 42 Irish. Good.	9 years. Normal.	Sept 1, 1885. Græfe. Cocaine. O. D. Normal. 18 days.	Sept. 19, 1885. V. = 0.5 Aug. 30, 1886. V. = 1.
3	M. 70 Am. Fair.	4 years. Normal.	Sept. 9, 1885. Græfe. Cocaine. O. S. Lens removed with scoop. Prolapse of iris. Membrane in pupil. 49 days. Capsule operation March 12, 1886.	Oct. 26, 1885. V. = fingers at 50 cm. Mar. 18, 1886. V. = 0.1
4	F. 70 Irish. Fair.	3 years. Normal.	Sept. 9, 1885. Græfe. Cocaine. O. D. Normal. 24 days.	Oct. 3, 1885. V. = 0.2
5	M. 55 Am. Good.	4 years. Normal.	Sept. 10, 1885. Græfe. Cocaine. O. D. Normal. 14 days. Capsule operation Oct. 8, 1885.	Sept. 24, 1885. V. = 0.3 Dec. 23, 1885. V. = 0.4
6	M. 77 Am. Fair.	5 years. Normal.	Sept. 10, 1885. Græfe. Cocaine. O. D. Normal. 14 days. Capsule operation Oct. 8, 1885.	Sept. 24, 1885. V. = 0.2 Oct. 29, 1885. V. = 0.2
7	M. 69 German. Good.	2 years. Normal.	Sept. 10, 1885. Græfe. Cocaine. O. D. Bandage removed eighth day. Wound not healed. Sept. 18. Slight iritis. Sept. 22. Anterior chamber re-established. 18 days.	Sept. 28, 1885. V. = 0.5
8	M. 66 Irish. Good	Mature. Normal.	Sept. 11, 1885. Græfe. Cocaine. O. S. Capsule in pupil. Slight iritis. 46 days.	Oct. 27, 1885. V. = 0.1
9	F. 60 Irish. Poor.	4 years. Good.	Sept. 14, 1885. Græfe. Cocaine. O. D. Patient uncontrollable. Takes off bandage. Delirious. Panophthalmitis.	V. = .0

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
10	F. 72 Eng. Good.	3 years. Good.	Sept. 18, 1885. Græfe. Cocaine. O. S. Eyelids first opened on eighth day. 17 days.	Oct. 6, 1885. V. = $\cdot\frac{4}{60}$ = < 0.1
11	F. 60 Irish. Good.	4 years. Normal.	Sept. 23, 1885. Græfe. Cocaine. O. S. Normal. 27 days.	Oct. 20, 1885. V. = < 0.2 Dec. 30, 1885. V. = 0.4
12	M. 67 Am. Good.	4 years. Normal.	Sept. 26, 1885. Græfe. Cocaine. O. D. Normal. 12 days.	Oct. 6, 1885. V = 0.3
13	M. 78 Am Fair.	3 years. Normal.	Sept. 28, 1885. Græfe. Cocaine. O. D. Struck the eye Oct. 6. Opened anterior chamber Oct. 11. Anterior chamber shallow, iris pressed forward. 24 days.	Oct. 22, 1885. V. = 0.2
14	F. 69 Am. Fair.	5 years. Normal.	Oct. 2, 1885. Græfe. Cocaine. O. D. Eyelids first opened on ninth day. 19 days.	Oct. 21, 1885. V. = 0.2
15	M. 61 German. Good.	4 years. Normal.	Oct. 2, 1885. Græfe. Cocaine. O. S. Eyelids first opened on eighth day. 19 days.	Oct. 21, 1885. V. = 0.1
16	F. 56 Irish. Good.	3 years. Normal.	Oct. 5, 1885. Græfe. Cocaine. O. D. Normal. 17 days. Capsule operation, Sept. 22, 1886.	Oct. 22, 1885. V. = 0.5 Oct. 6, 1886. V. = 0.7
17	F. 65 Irish. Good.	4 years. Normal.	Oct. 8, 1885. Græfe. Cocaine. O. D. Normal. 25 days. Capsule operation, Aug. 11, 1886.	Oct. 29, 1885. V. = 0.2 Aug. 16, 1886. V. = 0.7 Sept. 9, 1886. V. = 1.
18	F. 56 Am. Good.	3 years. Normal.	Oct. 21, 1885. Græfe. Cocaine. O. D. Some chemosis of conjunctiva. 15 days.	Nov. 5, 1885. V = 0.2 Dec. 10, 1885. V. = < 0.4
19	M. 39 Eng. Good.	Normal.	Oct. 26, 1885. Græfe. Cocaine. O. D. Lens shrunken, posterior synechiæ, making removal of lens difficult. 16 days.	Nov. 9, 1885. V. = 0.1 April 23, 1886. V. = 0.1

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
20	M. 67 Irish. Good.	3½ years. Normal.	Oct. 26, 1885. Græfe. Cocaine. O. D. Normal. 11 days.	Nov. 6, 1885. V. = 0.3
21	M. 78 Am. Fair.	5 years. Normal.	Oct. 28, 1885. Græfe. Cocaine. O. D. Eyelids first opened on eighth day. 16 days.	Nov. 13, 1885. V. = 0.1 Mar. 12, 1886. V. = < 0.3
22	F. 65 Am. Fair.	3½ years. Normal.	Oct. 30, 1885. Græfe. Cocaine. O. D. Normal. 18 days.	Nov. 17, 1885. V. = 0.1 1886. V. = 0.2
23	F. 24 Am. Good.	5 years. Normal.	Nov. 3, 1885. Græfe. Cocaine. O. D. Normal. 12 days.	Nov. 15, 1885. V. = 0.1
24	F. 56 Am. Good.	2¾ years. Normal.	Nov. 6, 1885. Græfe. Cocaine. O. S. Corneal wound too small; enlarged twice with scissors. Slight loss of vitreous, and some abrasion of centre of cornea, possibly due to cocaine. Some pain on second day, with increased puffing of eyelids on third. Some corneal in filtration. 36 days.	Dec. 12, 1885. Sees shadows at 70. C. M.
25	F. 64 Am. Fair.	2½ years. Normal.	Nov. 7, 1885. Græfe. Cocaine. O. S. Knife caught in iris while making corneal wound, producing large dialysis outwards. Normal healing. 15 days.	Nov. 22, 1885. V. = 0.2 Dec. 30, 1885. V. = < 0.3
26	M. 70 Irish. Fair.	3 years. Normal.	Nov. 7, 1885. Græfe. Cocaine. O. S. Normal. 18 days.	Nov. 25, 1885. V. = 0.2 May 25, 1886. V. = 0.2
27	F. 46 Irish. Good.	Normal.	Nov. 11, 1885. Græfe. Cocaine. O. S. Lens removed with scoop. Eserine afterward. Much pain for several days. Pupil blocked. Cornea hazy. 19 days.	Nov. 30, 1885. V. = 0.0
28	F. 70 Irish. Fair.	5 years. Normal.	Nov. 17, 1885. Græfe. Cocaine. O. S. 21 days.	Dec. 8, 1885. V. = 0.2
29	F. 55 Irish. Fair.	3 years, Normal.	Nov. 25, 1885. Græfe. Cocaine. O. D. Eserine after operation. Normal. 13 days.	Dec. 8, 1885. V. = $\frac{5}{36}$ = < 0.2

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Dnration of Treatment.	Vision.
30	M. 57 Am. Good.	7 years. Normal.	Dec. 6, 1885. Græfe. Cocaine. O. S. Normal. 14 days.	Dec. 20, 1885. V. = 0.2
31	F. 76 Am. Poor.	6 years. Normal.	Dec. 6, 1885. Græfe. Cocaine. O. D. Normal. 14 days.	Dec. 20, 1885. V. = 0.1
32	F. 67 Irish. Good.	Mature. Normal.	Dec. 7, 1885. Græfe. Cocaine. O. S. Patient uneasy; walking about ward. 17 days.	Dec. 24, 1885. V. = 0.2
33	F. 65 Am. Good.	4 years. Normal.	Dec. 7, 1885. Græfe. Cocaine. O. D. Normal healing. 17 days.	Dec. 24, 1885. V. = 0.2
34	M. 43	4 years. Normal.	Dec. 20, 1885. Græfe. Cocaine. O. S. On tenth day irido-choroiditis. 45 days.	Feb. 3, 1886. V. = < 0.4
35	M. 58 Am. Good.	2 years. Normal.	Dec. 27, 1885. Græfe. Cocaine. O. D. Patient uneasy during operation. 26 days.	Jan. 22, 1886. V. = 0.1
36	M. 72 Am. Good.	3 years. Normal.	Jan. 1, 1886. Græfe. Cocaine. O. D. Normal. 22 days.	Jan. 23, 1886. V. = 0.1 Feb. 19, 1886. V. = < 0.4
37	F. 72 Irish. Good.	4 years. Normal.	Jan. 4, 1886. Græfe. Cocaine. O. S. Iritis. 33 days.	March 3, 1886, V. = < 0.4 June 7, 1886. V. = < 0.3
38	F. 53 Irish. Good.	4 years. Normal.	Jan. 7, 1886. Græfe. Cocaine. O. D. Some swelling of eyelids Jan. 10. 27 days.	Feb. 3, 1886. V. = 0.1
39	M. 75 Am. Good.	Hypermature. Normal.	Jan. 10, 1886. Græfe. Cocaine. O. D. Normal. 24 days.	Feb. 3, 1886. V. = 0.1
40	M. 66 Am. Good.	3 years. Normal.	Jan. 24, 1886. Græfe. Cocaine. O. D. Normal. 10 days.	Feb. 3, 1886. V. = 0.2

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
41	M. 60 Am. Good.	Black.	Feb. 6, 1886. Græfe. Cocaine. O. D. Fluid vitreous, some of which was lost. Lens removed with scoop. Some pain for two days, but wound healed well. Capsule and cortical in pupil. 19 days.	Feb. 24, 1886. V. = < 0.1
42	M. 60 Irish. Good.	4 years. Normal.	Feb. 7, 1886. Græfe. Cocaine. O. D. Two thirds of each cornea had been covered with dense pterygium. Removed Dec. 27 and 31, 1885. Healing slow but well. Vision only up and out, owing to hypertrophy of corneal tissue from old pterygium. Some capsule in pupil. 22 days. Capsule operation, June 27, 1886.	Mar 1, 1886. V. = $\frac{2}{60}$ June 7, 1886. V. = $\frac{6}{60}$ July 14, 1886. V. = $\frac{8}{60}$
43	F. 70 Am. Good.	5 years. Normal.	Feb. 8, 1886. Græfe. Cocaine. O. D. Preliminary iridectomy several weeks before extraction of cataract. Eutropion of lower lid. 18 days.	Feb. 26, 1886. V. = 0.2 April 9, 1886. V. = 0.4
44	M. 69 Am. Good.	3 years. Normal.	Feb. 10, 1886. Græfe. Cocaine. O. S. Normal. 16 days.	Feb. 26, 1886. V. = 0.1
45	M. 34 Irish. Good.	4 years. Normal.	Feb. 18, 1886. Græfe. Cocaine. O. S. Normal. 10 days.	Mar. 1, 1866. V. = 0.1
46	F. 60 Irish. Fair.	4 years. Normal.	Feb. 18, 1886. Græfe. Cocaine. O. S. Delirious several days. General condition poor. 13 days.	Mar. 3, 1886. V. = 0.1 Aug. 24, 1886. V. = < 0.2
47	M. Irish. Poor.	Good.	Feb. 23, 1886. Græfe. Cocaine. O. D. Normal. 22 days.	Mar. 17, 1886. V. = 0.3
48	F. 59 Am. Fair.	1 year. Normal.	Feb. 26, 1886. Græfe. Cocaine. O. S. Normal. 18 days.	Mar. 16, 1886. V. = 0.3
49	M. 67 Eng. Fair.	2 years. Normal.	March 6, 1886. Græfe. Cocaine. O. S. Normal. 13 days.	Mar. 19, 1886. V. = 0.2 May 3, 1886. V. = < 0.3

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
50	M. 62 German. Good.	4 years. Normal.	March 10, 1886. Græfe. Cocaine. O. S. Normal. 12 days.	Mar. 23, 1886. V. = 0.2 June 7, 1886. V. = 0.5
51	M. 77 Am. Good.	7 years. Normal.	March 17, 1886. Græfe. Cocaine. O. S. 25 days.	April 14, 1886. V. = 0.2
52	F. 66 Irish. Good.	3 years. Normal.	March 23, 1886. Græfe. Cocaine. O. D. 34 days.	April 26, 1886. V. = 0.2 May 25, 1886. V. = 0.2
53	M. 73 Am. Good.	2½ years. Normal.	March 23, 1886. Græfe. Cocaine. O. S. 17 days.	April 9, 1886. V. = < 0.3
54	F. 60 Irish. Good.	2 years. Normal.	March 24, 1886. Græfe. Cocaine. O. S. Normal. 14 days.	April, 1886. V. = < 0.3
55	M. 74 Am. Good.	Normal.	March 24, 1886. Græfe. Cocaine. O. S. Small loss of vitreous. Considerable cortical substance in field of pupil. 24 days.	April 19, 1886. Shadows at 1 m.
56	F. 59 Am. Good.	2 years. Normal.	April 3, 1886. Græfe. Cocaine. O. D. Iris cut in making corneal incision. Narrow anterior chamber. Normal healing. 14 days.	April 17, 1886. V. = 0.4 May 20, 1886. V. = < 0.6
57	F. 72 Am. Good.	5 years. Normal.	April 7, 1886. Græfe. Cocaine. O. D. Normal. 14 days.	April 21, 1886. V. = 0.2 May 20, 1886. V. = 0.4
58	M. 71 Am. Good.	Normal.	April 9, 1886. Græfe. Cocaine. O. S. 18 days.	April 27, 1886. V. = 0.1 May 27, 1886. V. = 0.5
59	M. 56 Am. Good.	Normal.	April 10, 1886. Græfe. Cocaine. O. D. 20 days.	April 30, 1886. V. = 0.3
60	M. 62 Am. Fair.	2 years. Normal.	April 13, 1886. Græfe. Cocaine. O. D. 14 days.	April 27, 1886. V. = 0.1 May 3, 1886. V. = < 0.3

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
61	M. 57 Am. Good.	2½ years. Normal.	April 14, 1886. Græfe. Cocaine. O. D. Some cortical remaining in pupil. 16 days.	April 29, 1886. V. = 0.3 May 24, 1886. V. = 0.4
62	M. 75 Irish. Good.	Normal.	April 20, 1886. Græfe. Cocaine. O. S. 30 days.	May 20, 1886. V. = 0.1 June 22, 1886. V. = 0.2
63	M. 52 Am. Good.	3 years. Normal.	April 21, 1886. Græfe. Cocaine. O. D. 16 days.	May 7, 1886. V. = < 0.3 1886. V. = 1.
64	F. 41 Scotch. Fair.	18 years. Good perception. Poor projection.	April 24, 1886. Græfe. Cocaine. O. S. When eyelids first opened on eighth day, one half of wound still open. Capsule projecting through it was excised. 31 days.	May 25, 1886. V = $\frac{3}{70}$
65	F. 82 Am. Fair.	10 years. Normal.	April 26, 1886. Græfe. Cocaine. O. S. Normal. 16 days.	May 12, 1886. V. = 0.1 May 22. 1886. V. = 0.2
66	M. 54 German. Fair.	4 years. Normal.	April 28, 1886. Græfe. Cocaine. O. D. Normal except unusual redness of eyeball. 14 days.	May 12, 1886. V. = 0.1 June 10, 1886. V. = < 0.3
67	M. 56 Am. Poor.	Normal.	April 28, 1886. Græfe. Cocaine. O. D. Normal. 14 days.	May 12, 1886. V. = 0.5 June 10, 1886. V. = 0.7
68	F. 55 Irish. Good.	4 years. Normal.	April 28, 1886. Græfe. Cocaine. O. S. Normal. 14 days.	May 12, 1886. V. = < 0.2 June 17, 1886. V. = < 0.2
69	M. 65 Irish. Good.	Uncertain.	May 8, 1886. Græfe. Cocaine. Later, ether, owing to restlessness of patient. O. S. Loss of fluid vitreous due to convulsive effort of patient. Eyelids opened first on seventh day. Eye clear till May 19, when blood was found in anterior chamber with membrane (possible separated retina) behind pupil. Panophthalmitis. 51 days.	V. = 0.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
70	F. 57 Am. Good.	Normal.	May 11, 1886. Græfe. Cocaine. O. D. Cystoid cicatrix and prolapse of iris. 67 days.	July 19, 1886. V. = 0.25 Sept. 30, 1886. V. = 0.2
71	M. 71 Am. Good.	1½ years. Normal.	May 12, 1886. Græfe. Cocaine. O. D. Normal. 15 days.	May 27, 1886. V. = 0.2 June 25, 1886. V. = 0.2
72	M. 63 Am. Poor.	5 years. Normal.	May 19, 1886. Græfe. Cocaine. O. D. Normal. 18 days.	June 6, 1886. V. = 0.2
73	M. 45 Am. Good.	2 years. Normal.	May 21, 1886. Græfe. Cocaine. O. S. Normal. 14 days.	June 4, 1886. V. = < 0.6
74	F. 45 Irish. Good.	2 years. Normal.	June 3, 1886. Græfe. Cocaine. O. S. Normal. 19 days.	June 22, 1886. V. = 0.4
75	M. 54 Am. Good.	10 years. Normal.	June 3, 1886. Græfe. Cocaine. O. S. Normal. Some capsule in pupil. 24 days.	June 27, 1886. V. = 0.3
76	M. 62 Am. Good.	2 years. Normal.	June 8, 1886. Græfe. Cocaine. O. S. Normal. 19 days.	June 27, 1886. V. = < 0.5
77	F. 64 Am. Good.	Normal.	June 9, 1886. Græfe. Cocaine. O. S. Iritis. 23 days.	Aug. 2, 1886. V. = 0.1
78	M. 55 Irish. Good.	2 years. Normal.	June 10, 1886. Græfe. Cocaine. O. D. Normal. 19 days.	June 29, 1886. V. = 0.8
79	M. 67 Irish. Poor.	1 year. Normal.	June 13, 1886. Græfe. Cocaine. O. D. Normal. 15 days.	June 28, 1886. V. = 0.03 Oct. 1, 1886. V. = $\frac{2}{60}$

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
80	F. 60 Irish. Good.	2 years. Normal.	June 13, 1886. Græfe. Cocaine. O. D. Normal. 14 days.	June 27, 1886. V. = < 0.4
81	M. 67 Irish. Good.	2 years. Normal.	June 17, 1886. Græfe. Cocaine. O. D. Normal. 22 days.	July 9, 1886. V. = 0.3
82	F. 76 Irish. Good.	2 years.	June 22, 1886. Græfe. Cocaine. O. D. Normal. 28 days.	July 19, 1886. V. = < 0.3
83	F. 69 W. I. Good.	5 years. Normal.	July 17, 1886. Græfe. Cocaine. O. D. Iod-hydrarg. of potass., 1 to 10,000, before operation, to wash out conjunctival sac. Normal. 13 days.	July 29, 1886. V. = 0.3 Aug. 3, 1886. V. = < 0.4
84	M. 33 Am. Good.	6 years.	July 29, 1886. Græfe. Cocaine. O. D. Normal. 20 days.	Aug. 18, 1886. V. = 0.4
85	M. 72 German. Good.	3 years. Normal.	Aug. 4, 1886. Græfe. Cocaine. O. D. Normal. 26 days. Capsule operation Sept. 3, 1886.	Aug. 30, 1886. V. = 0.2 Sept. 13, 1886. V. = 0.4

STATISTICS OF CATARACT EXTRACTIONS WITHOUT IRIDECTOMY, FOR THE YEAR ENDING AUG. 31, 1886.

No.	Sex, Age, Nation, Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	F. 68 Irish. Good.	Unknown. Uncertain.	Sept. 2, 1885. Wecker. Cocaine. O. D. Small loss of vitreous. Iritis. Blocked pupil. 30 days.	Oct. 1, 1885. Finger at 1 m.
2	F. 73 No. Sco. Good.	3 years. Normal.	Sept. 19, 1885. Wecker. Cocaine. O. D. Hernia of iris into inner ⅔ of wound. Excised. 19 days.	Oct. 8, 1885. V. = 0.2

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæesthetic. Healing Process. Duration of Treatment.	Vision.
3	M. 72 Eng. Fair.	4 years. Normal.	Oct. 22, 1885. Le Brun. Cocaine. O. D. Slight iritis. 26 days.	Nov. 17, 1885. V. = 0.1
4	M. 58 Irish. Good.	3½ years. Normal.	Oct. 23, 1885. Wecker. Cocaine. O. S. Pupil slightly drawn upwards. Some adhesions of iris seen under atropine. 13 days.	Nov. 5, 1885. V. = 0.3
5	M. 46 Irish. Good.	1 year. Normal.	Jan. 2, 1886. Modified flap. Upward. Cocaine. O. S. Conjunctiva washed with iod-hydrarg. of potass., 1 to 10.000 before operating, as an antiseptic. Normal. 17 days.	Jan. 20, 1886. V. = 0.7
6	F. 46 Irish. Good.	1 year. Normal.	Jan. 9, 1886. Modified flap. Cocaine. O. D. Iod-hydrarg. of potass., 1 to 10.000 before operation. On fifth day hit eye against a table, reopened wound and caused large hernia of iris. 31 days.	Mar. 9, 1886. V. = perception of light.
7	M. 65 Am. Good.	3 years. Normal.	Jan. 9, 1886. Modified flap. Cocaine. O. D. Iod-hydrarg. of potass., 1 to 10,000 before operation. Normal. 11 days.	1886. V. = < 0.5
8	F. 72 Am. Fair.	Normal.	Feb. 24, 1886. Modified flap. Cocaine. O. S. Considerable pain. Œdema of conjunctiva. Much infiltration of cornea near wound. Patient carried home by friends seventeen days after operation.	Perception of light.
9	M. 72 Eng. Good.	4 years. Normal.	June 5, 1886. Modified flap. Cocaine. O. D. Iod-hydrarg. of potass., 1 to 10,000, before operation. Normal healing. Pupil under atropine is irregular, showing several points of attachment to capsule. 14 days.	June 19, 1886. V. = 0.2 July 17, 1886. V. = < 0.5 Aug. 18, 1886. V. = 0.8
10	M. 41 Am. Good.	3 years. Normal.	June 8, 1886. Modified flap. Cocaine. O. S. Iod-hydrarg. of potass., 1 to 10,000, before operation. After extraction a hernia of iris into wound, which eserine would not reduce. Iridectomy followed by a small loss of semi-fluid vitreous. Wound healed well. 12 days.	June 20, 1886. V. = 0.4 July 22, 1886. V. = 0.4

No.	Sex. Age. Nation. Health.	Cataract Duration. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
11	F. 72 Am. Fair.	Normal.	June 23, 1886. Modified flap. Cocaine. O. S. Iod-hydrarg. of potass., 1 to 10,000, before operation. Normal. 16 days.	July 9, 1886. V. = < 0.2 July 28, 1886. V. = 0.2
12	M. 71 Am. Good.	Normal.	July 17, 1886. Modified flap. Cocaine. O. S. Iod-hydrarg. of potass., 1 to 10,000 before operation. Eserine to control a tendency to prolapse of iris. Normal. Central movable pupil. 12 days.	July 29, 1886. V. = 0.2
13	F. 62 Irish. Good.	Normal.	July 21, 1886. Modified flap. Cocaine. O. D. Iod-hydrarg. of potass., as before. Pupil drawn a little upward, by attachment of upper part of iris at periphery to wound. Slight iritis. 20 days.	Aug. 10, 1886. V. = $\frac{6}{24}$ 0.25 Aug. 19, 1886. V. = < $\frac{6}{18}$ 0.3
14	M. 61 Am. Good.	4 years. Normal.	Aug. 1, 1886. Modified flap. Cocaine. O. S. Iod-hydrarg. of potass., as before. Small amount of capsule in field of pupil. 12 days.	Aug. 13, 1886. V. = < 0.3
15	M. 70 Am. Good.	1 year.	Aug. 4, 1886. Modified flap. Cocaine. O. S. Iod-hydrarg. of potass., as before. After cut was finished, patient contracted muscles of eyeball, and forced out a small amount of semi-fluid vitreous. Lens at same time displaced downward. Extracted with scoop. Patient removed bandage on third day, and otherwise appeared demented. Friends removed him on tenth day, saying he was often out of his head. 10 days.	Aug. 14, 1886. V. = 0.1
16	M. 55? Irish. Poor.	6 years. No examination on account of absolute deafness.	Aug. 25, 1886. Modified flap. Cocaine. O. D. Iod-hydrarg. of potass., as before. During afternoon after operation took off his bandage several times, and refused to stay in bed. Impossible to communicate with patient on account of his deafness. 24 hours after operation was looking about with bandage pushed to top of head. The wound was entirely closed, anterior chamber re-established, and some flakes of cortical floating in pupil and below in front of iris. No bandage attempted, on account of uncontrollability of patient. Convalescence normal. When discharged had some capsule in pupil. 14 days.	Sept. 8, 1886. V. = < 0.1 Sept. 15, 1886. V. = 0.1

STATISTICS OF CATARACT EXTRACTIONS BY SUCTION, FOR THE YEAR ENDING AUG. 31, 1886.

No.	Sex, Age, Nation, Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	M 22 Am. Good.	Traumatic. Normal.	Dec. 6, 1885. Suction. Cocaine. O. S. Normal. 7 days.	Dec. 13, 1886. Counts fingers at 30. Cm. Jan. 20, 1886. V. = 0.2
2	M. 14 Am. Good.	1½ months. Normal.	Jan.2, 1886. Suction. Cocaine. O. D. Patient difficult to control. Entire soft cataract removed, leaving clear pupil. Normal. 6 days.	Jan. 8, 1886. V. = 0.1 Jan. 20, 1886. V. = 0.5
3	F. 12 Am. Good.	9 weeks. Normal.	Jan. 21. 1886. Suction. Cocaine. O. D. Capsule in pupil. 5 days. Capsule operation, Feb. 7, 1886.	Jan. 21, 1886. V. = 0.1 Feb. 10, 1886. V. = 0.2
4	M. 33 Am. Good.	Traumatic. Normal.	July 3. 1886. Suction. Cocaine. O. S. Normal. 5 days.	July 8, 1886. V. = 0.4
5	M. 27 Irish. Good.	Projection poor.	Aug. 18, 1886. Suction. Cocaine. O. S. Normal. 5 days. Partial separation of retina seen on last examination.	Aug. 23, 1886. V. = $\frac{1}{40}$ Sept. 4, 1886. V. = $\frac{2}{60}$ = <0.1
6	M. 33 Am. Good.	Traumatic. Normal.	Aug. 28, 1886. Suction. Cocaine. O. S. Normal. 3 days.	Aug. 31, 1886. V. = 0.1
7	M. 30 Am. Good.	Traumatic. Normal.	Aug. 28, 1886. Suction. Cocaine. O. S. Normal. 3 days.	Aug. 31, 1886. V. = $\frac{2}{60}$ = <0.1

SIXTY-SECOND

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OF THE

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1887-88.

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REPORT OF THE MANAGERS

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Massachusetts Charitable Eye and Ear Infirmary.

1887.

In behalf of the Managers of the Massachusetts Charitable Eye and Ear Infirmary, we herewith present the report of the surgeons for the year ending Sept. 30, 1887. As will be seen by that report, the number of new patients recorded for the year is 12,564 as against 12,399 for the previous year.

At Pittsfield, where, as stated in a previous report, one of our surgeons makes quarterly visits to give advice to poor patients in that part of the State, in regard to the advisability of their coming to the Infirmary for treatment, the number of new cases is reported to be 159.

The decease of the Hon. Zenas M. Crane, of Dalton, Mass., reveals the fact, which he carefully kept secret during his lifetime, that it is due to his generosity that we received in 1882 the sum of $10,000 as a special fund, to afford the means of defraying the expenses of these visits.

The number of house patients received during the year was 567 as against 580 for the previous year, the diminution being due to the necessity of making some alterations and repairs in the Infirmary during the past summer, which curtailed the number of available beds during that time.

We regret to announce the resignation of Mr. J. Huntington Wolcott from the Board of Managers, where he has served in constant attendance for forty-four years, and we shall long miss his genial presence and his wise and prudent advice.

We have also lost, owing to his removal to Chicago, the valuable assistance of Dr. Charles H. Williams, who, as surgeon and assistant surgeon, has been connected with the Infirmary for the past ten years; his place on the Board of Surgeons being filled by Dr. Henry W. Bradford, who has been assistant surgeon since 1882, and whose connection with the Infirmary began in 1876.

The funds of the Infirmary have been increased during the past year by a legacy of $5,000 from the estate of Miss Abby Somes, and another of $759.84 from the estate of Mrs. Sophia P. Goldsmith.

In conclusion, the Managers would state that, with every year, the necessity becomes more and more apparent of several rooms for patients whose cases require complete isolation. At present, there is but one such room, and the arrangements of the building preclude devoting more of our present rooms to this purpose with safety to the other patients; nor, indeed, can such rooms be well spared. It is therefore hoped that the charitable public will take this into consideration, and generously provide the means for this much-needed improvement.

CHARLES P. CURTIS.
GEORGE P. GARDNER.

REPORT OF THE SURGEONS.

To the Managers of the Massachusetts Charitable Eye and Ear Infirmary,

For the Year ending Oct. 1, 1887.

Gentlemen, — The annual report for the present year is herewith presented. As will be seen, the number of new patients is slightly greater than that recorded last year, 12,564 as compared with 12,399; an increase of 165. Had it not been for the extensive repairs undertaken through the building and the consequent diminution in the number of available beds, the excess would have been larger.

Within twenty years and under the personal observation of a majority of the present surgeons, the number of patients annually relieved has grown from 3,918 to 12,564, while the beds in the house have been increased from 39 to 70. This is the more remarkable when we take into account the fact that the Infirmary then stood alone in its sphere of usefulness, while now the two great hospitals, as well as four smaller institutions, have each established special clinics, some of which have been carried on for a number of years. Had it not been for the increased flow of both public and private beneficence in our direction, it would have been impossible to have achieved such a result.

The alterations and repairs recently carried out have greatly added to the comfort and welfare of all inmates of the building, as well as to the efficiency of the Infirmary. In connection with them we would express a wish that it may

be ultimately found possible to set aside and equip a room which will serve as a laboratory for microscopical and physiological work. This is now, in great measure, necessarily carried on outside the premises, at a cost of time and convenience. A portion of the space thus set apart might be used to contain the nucleus of a library, consisting of books relating to ophthalmic and aural science. Were such a collection once commenced, donations and bequests would doubtless follow, rendering it possible to purchase new works on their appearance and to take in the leading periodical publications.

We would again call attention to the large number of cases entered under the head of "unrecorded and unfit," but mostly belonging to the latter class. There are four hundred and ninety-four of these, as compared with three hundred and sixteen of the previous year. While this fact shows the constant care exerted to prevent the extension of medical charity to unworthy applicants, it demonstrates, on the other hand, that attempts at imposition on the part of a certain set of individuals evince no tendency to decrease.

The faithful labors of the Assistant Surgeons, the diligence and devotedness of the Internes, and the watchful care of the Superintendent and the Matron, have materially contributed to the facts and results embodied in the accompanying report.

HASKET DERBY.
HENRY L. SHAW.
F. P. SPRAGUE.
B. JOY JEFFRIES.
ROBERT WILLARD.
CLARENCE J. BLAKE.
CHAS. H. WILLIAMS.

STATISTICS.

October 1, 1886, to October 1, 1887.

CLASSIFICATION OF PATIENTS, DISEASES, AND OPERATIONS.

House Patients.

Eye Patients:		
Males	312	
Females	230	
	——	542
Ear Patients:		
Males	16	
Females	9	
	——	25
Total House Patients		567

Out-Patients.

Eye Patients:		
Males	4,608	
Females	3,992	
	——	8,600
Ear Patients:		
Males	1,825	
Females	1,572	
	——	3,397
Total Out-Patients		11,997
Total number of patients treated during the year,		12,564

Eye Patients.

Residents of Boston	4,743
" other parts of Massachusetts	3,536
" Maine	108
" New Hampshire	92
" Vermont	24
" Rhode Island	27
" Connecticut	4
" other States	23
" British Provinces	38
" England	2
Unrecorded	3
	8,600

Occupation of Eye Patients.

Agents	22
Barbers	33
Blacksmiths	54
Carpenters	170
Children	1,932
Clergymen	3
Clerks	304
Dentists	1
Domestics	756
Engineers	27
Farmers	85
Firemen	20
Fishermen	31
Hatters	6
Home	909
Laborers	613
Leather workers	43
Masons	66

Mariners	60
Mechanics	418
Messengers	55
Metal workers	185
Milliners	16
Mill operatives	289
Musicians	9
Nurses	29
Painters	78
Photographers	2
Policemen	8
Printers	67
Provision dealers	46
Railroad	54
Rubber workers	46
Saloon keepers	14
Sewing	299
Shoemakers	167
Soldiers	8
Students	37
Tailors	97
Teachers	38
Teamsters	147
Traders	29
Tradesmen	219
Widows	219
Wood workers	110
From the work-house	3
From other hospitals	4
Other occupations	90
Unrecorded and unfit	494
	8,600

Diseases of the Eye.

Lids.

Abscess	41
Blepharitis	19
Blepharadenitis	466
Burn	14
Chalazion	173
Cuts	19
Cyst	6
Ecchymosis	18
Ectropion	14
Entropion	12
Eczema	40
Epithelioma	7
Foreign body in	39
Hœmatoma	1
Herpes	3
Hordeolum	79
Lippitudo	7
Nævus	2
Œdema	46
Ptosis	16
Pediculus	3
Symblepharon	6
Tear of lid	1
Trichiasis	26
Tumor	10
Verruca	11
Total	1,078

Lachrymal Apparatus.

Abscess	55
Catarrh lachrymal sac	27
Calcareous deposit in sac	1
Epiphora and obstruction of lachrymal ducts	181
Eversion of punctum	10
Lachrymal fistula	2
Mucocele	7
Total	283

Conjunctiva.

Burn	24
Chemosis	3
Conjunctivitis, catarrhal	1,453
" diphtheritic	3
" purulent	20
" neonatorum	31
" granular	122
" " with pannus	58
" phlyctenular	301
" traumatic	49
" strumous	21
Cut of	7
Cyst	1
Ecchymosis	37
Emphysema	1
Foreign body in	38
Hyperæmia	29
Œdema of	5
Pinguecula	20
Pterygium	68
Tumor	5
Total	283

Cornea and Sclera.

Abrasion	54
Abscess	5
Anterior staphyloma	23
Burn	20
Foreign body	780
Inflamed leucoma	44
Keratitis simplex	196
" phlyctenular	67
" interstitial	14
" traumatic	19
Keratoconus	6
Kerato-iritis	11
Leucoma	261
Rupture of cornea	6
Tumor " "	3
Ulcer " "	433
" vascular	46
" traumatic	32
Ulcus serpens	5
Wound of cornea	36
Congenital pigmentation of sclera and iris	1
Episcleritis	17
Foreign body on sclera	5
Rupture of "	4
Scleritis	30
Sclero-keratitis	14
Staphyloma of sclera	1
Total	2,135

Iris and Ciliary Body.

Ciliary redness	24
Coloboma of iris	4
Corectopia	2
Hæmorrhage into anterior chamber	20
Hypopion	16
Irido-dialysis	5
Iridodonesis	3
Iridoplegia, traumatic	1
Iritis	185
" syphilitic	18
" traumatic	9
Mydriasis	24
Myosis	2
Prolapse of iris	11
Synechia, anterior	24
" posterior	47
Wound of ciliary body	6
Total	404

Choroid.

Albinism	2
Atrophy	2
Choroiditis	60
Irido-choroiditis sympathetic	6
" "	10
Panophthalmitis	2
Rupture of choroid	1
Sclerotico-choroiditis posterior	21
Staphyloma posterior	24
Sympathetic choroiditis	1
Glaucoma	30
Total	159

Lens.

Aphakia	2
Dislocation of	17
Foreign body on	1
Cataract, mature	112
" capsular	5
" congenital	21
" cretaceous	6
" incipient	249
" lamellar	6
" posterior polar	8
" traumatic	56
Total	483

Vitreous.

Cholesterine in	1
Hæmorrhage into	12
Hyalitis	1
Muscae volitantes	18
Opacities	34
Total	66

Retina.

Atrophy of veins and nerve	1
Congestion of veins	1
Embolism of central artery	2
Glioma	1
Hæmorrhage into macula	2
Neuro-retinitis	10
Retinitis	10
" albumenurica	4

Retinitis apoplectica	4
" pigmentosa	7
Separation of	32
Total	74

Optic Nerve.

Atrophy	49
Hæmorrhage into nerve sheath	1
Hyperæmia	4
Neuritis	33
Œdema	1
Opaque nerve fibres	1
Total	89

Eyeball and Orbit.

Disorganized globe	20
Exophthalmus	5
Foreign body in	5
Granulation tissue in orbit	1
Hydrophthalmus	4
Inflamed stump	1
Microphthalmus	2
Phthisis bulbi	40
Rupture of globe	1
Tumor of globe	3
" " orbit	2
Total	84

Refraction and Accommodation.

Asthenopia	69
Astigmatism	369

Hypermetropia	1,018
Myopia	232
Paralysis of accommodation	4
Presbyopia	194
Spasm of accommodation	55
Total	1,941

Muscular Affections and Neuroses.

Blepharospasmus	17
Ciliary neuralgia	11
Diplopia	10
Herpes zoster frontalis	3
Insufficiency of internal recti	6
Nystagmus	11
Paralysis of facial	7
" " third pair	19
" " sixth pair	9
Strabismus convergens	178
" divergens	24
" sursumvergens	2
Supra orbital neuralgia	7
Total	304

Affections of the Percipient Apparatus.

Amblyopia	23
" ex abusu	39
Hemiopia	2
Hysterical photophobia	1
Nyctalopia	3
Photophobia	6
Scotoma	4
Total	78

General Injuries.

Blows and cuts	61
Burns	34
Total	95

Miscellaneous.

Eloped	24
No disease	16
Referred to other institutions	34
Referred to ear department	12
Unfit	438
Unrecorded	76
Total	600

Summary of Eye Diseases.

Eyelids	1,080
Lachrymal apparatus	283
Conjunctiva	2,310
Cornea and sclera	2,135
Iris and ciliary body	404
Choroid	159
Vitreous	66
Lens	483
Retina	74
Optic nerve	89
Lesions of eyeball and orbit	84
Refraction and accommodation	1,941
Muscular affections and neuroses	304
Affections of the percipient apparatus	78
General injuries	95
Miscellaneous	600
Total	10,085

OPERATIONS ON THE EYE.

Lids.

Ankyloblepharon	1
Canthoplasty	2
Chalazion	68
Cut of lid, sutured	2
Excision of cyst	1
" epithelioma	1
" new growth	2
Electrolysis of nævus	1
Green's operation for trichiasis	11
Other " " "	6
Incision of abscess	21
Plastic operation for ectropion	1
Symblepharon	3
Total	120

Conjunctiva.

Desmarres' operation for pterygium	22
Peritomy	3
Total	25

Cornea.

Abscission of anterior staphyloma	2
Electrolysis of lencoma	11
Removal of foreign body	785
Saemisch's operation for ulcus serpens	3
Tattooing of cornea	3
Total	804

Iris.

Division of anterior synechia	1
Iridectomy for artificial pupil	27
" " chronic iritis	2
" preparatory to cataract extraction	4
" " for glaucoma	12
" " " sclero-keratitis	1
Iridotomy	4
Total	51

Lens.

Discission of congenital cataract	1
" traumatic "	3
Extraction of senile cataract (Græfe)	82
" " " (modified flap)	20
" soft or traumatic (suction)	9
Capsule operations (Agnew's)	5
" " (other)	22
Total	142

Enucleation.

For disorganized globe	8
" melano sarcoma of globe	1
" glioma	1
" sympathetic ophthalmia	28
Of nerve stump	1
Evisceration of globe	1
Optico ciliary neurotomy	1
Total	41

Muscles.

Strabismus convergens	99
" divergens	1
Advancement of internal rectus	1
" external "	1
Total	102

Other Operations.

Bowman's on tear passage	20
Opening lachrymal abscess	12
Removal of anterior portion of eyeball	5
" steel with electro-magnet	1
" wood splinter from anterior chamber	1
Total	39

Ear Patients.

Out-Patients.

Residents of Boston	1,840
" other parts of Massachusetts	1,439
" Maine	42
" New Hampshire	25
" Vermont	9
" Rhode Island	6
" Connecticut	2
" other States	19
" British Provinces	15
Total	3,397
Males	1,825
Females	1,572
Total	3,397

STATISTICAL REPORT OF THE DISEASES OF THE EAR.

OCT. 1, 1886, TO OCT. 1, 1887.

Abscess of lobe	4
" meatus	11
" tragus	1
Atresia of meatus following otitis media purulenta	3
Burn of auricle	1
Cyst "	2
Deaf-mutism	10
Eczema of auricle and meatus	30
" post-aural	7
Ear-ring removed from lobe	1
Foreign body in meatus	31
Frost bite of auricle	1
Hæmatoma	2
Hæmorrhage into tympanum	1
Herpes auricularis	1
Injury to auricle	1
Keratosis obturans	4
Lacerated meatus	1
Obstruction of meatus with cerumen	611
Otitis externa circumscripta	80
" " diffusa	56
" media purulenta chronica	562
" " " with post-aural abscess	13
" " " " facial paralysis	3
" " " " polypus	62
" interna	7

Otitis media acuta	221
" " " with serous accumulation	21
" " catarrhalis chronica	853
" " subacuta	68
" catarrhalis tubalis	19
" media purulenta acuta	119
" " " healed	102
Other diseases	58
Otalgia neuralgica	35
Periostitis canal	1
Polypus on superior wall of meatus	1
Shock to labyrinth	3
Tinnitus aurium	20
Traumatic rupture, membrana tympani	15
Wound of membrana tympani from hairpin	1
Unfit	311
Unrecorded	43
	3,397

Occupations of Ear Patients.

Actors	1
Agents	26
Artists	2
Barbers	23
Book-keepers	24
Butchers	13
Cigar makers	13
Clergymen	5
Clerks	170
Domestics	247
Drivers	38
Engineers	33
Engravers	1

Errand boys	17
Farmers	48
Farm hands	24
Firemen	16
Fishermen	14
Home	213
Housekeepers	38
Janitors	12
Jewellers	16
Laborers	731
Lamp-lighters	2
Leather workers	31
Letter carriers	3
Mariners	43
Mechanics	604
Milliners	3
Mill hands	96
Musicians	6
News dealers	5
Nurses	18
Painters	48
Pedlers	22
Physicians	4
Police officers	9
Printers	32
Railroad	44
Seamstresses	118
School	82
Shoemakers	127
Soldiers	2
Students	7
Tailors	60
Teachers	16
Teamsters	97

Traders	130
Watchmen	10
Other occupations	53
	3,397

Operations on the Ear.

Abscess of lobe incised	6
" " meatus incised	16
" " post-aural incised	13
Foreign bodies	8
Hæmorrhagic bulla membrana tympani	2
Opening of the mastoid process	1
Paracentesis, membrana tympani	24
Polypus, torsion	2
" snare	43
Sequestrum removed from meatus	7
Shaft of screw ear-ring removed from lobe	1
Supra aural abscess	2
	125

STATISTICS OF DISEASES OF HOUSE PATIENTS.

Eye Patients.

Abscess of cornea	3
Ankyloblepharon	1
Atrophy of optic nerve	1
Blepharadenitis	5
Caries and lachrymal abscess	5
Cataract	116
" traumatic	21
" capsular	22
" congenital	11
" posterior polar	1
Choroiditis	4
Conjunctivitis, catarrhal	2
" granular	15
" " with pannus	38
" phlyctenular	3
" purulent	15
Cut of lids	3
Dislocation of lens	1
Disorganized globe	14
Ectropion	2
Entropion	7
Foreign body in cornea	3
" " " anterior chamber	1
Glaucoma	16
Hydrophthalmus	2
Injury to globe	11
Intra-ocular tumor	2
Irido-choroiditis	1

Irritable nerve stump	1
Iritis	14
" rheumatic	2
" syphilitic	3
Keratitis	8
" phlyctenular	6
" interstitial	7
" traumatic	4
" vascular	4
Kerato-iritis	3
Leucoma	20
Lippitudo	1
Neuritis	1
Panophthalmitis	1
Phthisis bulbi	5
Retinitis pigmentosa	1
Scleritis	3
Sclero-keratitis	3
Sclerotico-choroiditis posterior	2
Separation of retina	1
Staphyloma anterior	7
Strabismus convergens	3
" divergens	1
Supra-orbital neuralgia	1
Symblepharon	1
Sympathetic irritation	4
Sympathetic ophthalmia	2
Synechia, anterior	3
" posterior	4
Trichiasis	5
Tumor at sclero-corneal margin	2
Ulcer of cornea	41
" " traumatic	7
" " serpens	4

Vitreous, hæmorrhage into	1
Wound in ciliary region	7
Wound of cornea	8
Miscellaneous	18
Total	542

Ear Patients.

Caries external wall of external auditory meatus	1
Otitis media acuta simplex	2
" " chronica catarrhalis	2
" " purulenta acuta	3
" " " chronica	14
" " " with mastoid abscess	3
Total	25

REPORT OF ONE HUNDRED AND ELEVEN OPERATIONS

FOR THE

Extraction of Cataract,

DONE AT THE MASSACHUSETTS CHARITABLE EYE AND EAR INFIRMARY BY THE OPHTHALMIC SURGEONS DURING THE YEAR ENDING AUG. 31, 1887.

COMPILED BY HASKET DERBY, M. D.

During the past year there have been one hundred and eleven operations for the extraction of cataract, divided as follows : —

Method of Græfe	82
Modified flap	20
Suction	9

Of the eighty-two done according to the method of Græfe, seventy-four were cases of uncomplicated senile cataract. Vision resulted as follows : —

Vision 1	5	Vision 0.1	8
" 0.9	1	" 0.05	1
" 0.8	1	" 0.04	1
" 0.7	3	" 0.03	1
" 0.6	3	Perception of light	1
" 0.5	4	Still under treatment	1
" 0.4	12	Unrecorded	1
" 0.3	15	Total loss of eye	2
" 0.2	14		74

Vitreous presented or was lost in seven instances. Antiseptic precautions were employed in twenty-four cases. In the remaining fifty only strict cleanliness was insisted on. No eye belonging to the former category was lost, but no conclusion was deduced from so limited an experience.

The length of treatment was: —

For those treated antiseptically	14.8 days.
For all others	22 days.

Cocaine was applied in every case but one. No ill effect was observed.

Of the two cases of total failure one was lost through panophthalmitis, thought to have been caused by an attempt to irrigate the anterior chamber after the extraction, the cortical masses having been seemingly driven behind the iris, out of sight. In the other panophthalmitis ensued without apparent cause.

Twenty cases were operated on by the modified flap method, no iridectomy being performed. With a single exception (case 16), they were uncomplicated senile cataracts. In six of these no special antiseptic precautions were taken. In the remainder strict antisepsis was followed. A single description may serve for all. "The conjunctival sac was washed out, before the operation, with one to five thousand of red iodide of mercury dissolved in solution of iodide of potash, equal parts of the mercury and potash salts being used. All the instruments and dressings were previously sterilized in dry heat at one hundred and forty degrees Centigrade. Iodoform was applied to edge of closed lids." Irrigation of the anterior chamber was practised at the close of the operation in eight of these cases, all of which were in the charge of the same surgeon. A sterilized chloride of sodium solution, varying in strength from one quarter to one half of one per cent, was employed.

Vitreous presented or was lost twice. Prolapse of the iris occurred six times, once owing to a blow, and was twice excised. In three additional cases the pupil was drawn slightly up. In the remaining instances there was a clear central pupil. Vision resulted as follows: —

Vision	1	Vision	0.4 4
"	0.8 1	"	0.3 2
"	0.7 1	"	0.2 5
"	0.6 2	"	0.05 1
"	0.5 2		19

The average duration of treatment was 15.6 days, as compared with 19.6 days of the Græfe extractions. The comparative average vision resulted thus: —

Græfe extractions	0.371
Modified flap	0.418

Against this apparent gain in favor of the extractions without iridectomy must be set the fact that the cases in which this operation was undertaken were generally selected as the more promising.

The suction cases were few in number and largely traumatic. The facts concerning them will be found in the accompanying table.

STATISTICS OF CATARACT EXTRACTIONS, WITH IRIDECTOMY, FOR THE YEAR ENDING AUG. 31, 1887.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	M. 70 Irish. Good.	1 year. Normal.	Sept. 2, 1886. Græfe. Cocaine. Operation had been attempted Aug. 20, but vitreous presented after the iridectomy, and the eye was closed. Now normal extraction. Capsule operation Sept. 20. 35 days.	April 15, 1887. V. = 0.2
2	M. 74 Am. Poor.	6 years. Projection poor, downwards and inwards.	Aug. 25, 1886. Iridectomy done with difficulty on account of synechiæ. Sept. 2. Græfe Cocaine. Scoop used. Plastic iritis followed, leaving pupil blocked. To return for secondary operation. 43 days.	Oct. 7, 1886. Sees moving hand
3	M. 48 Am. Good.	6 years.	Sept 6, 1886. Græfe. Cocaine. Normal. Sept 22. Capsule operation 19 days.	Oct. 2, 1886. V. = 0.3
4	M. 74 Scotch. Good	1 year.	Sept. 12, 1886. Græfe Cocaine. Slight loss of vitreous. 13 days.	Oct 13, 1886. V. = > 0.4
5	M. 67 Austr'n. Poor.	2 years. Normal.	Sept. 17, 1886 Græfe. Cocaine. Normal operation. 21 days.	Oct. 7, 1886. V. = 0.1
6	F. 65 Irish. Good.	2 years Normal.	Sept. 18, 1886. Græfe Cocaine. Iridectomy had previously been performed. 18 days.	Oct. 6, 1886. V. = 0.3
7	F. 53 German. Poor.	10 years. Normal.	Sept. 20, 1886. Græfe. Cocaine. Normal operation. 19 days.	
8	M. 31 Amer. Good.	3 years. Nuclear, immature.	Sept. 24, 1886. Græfe. Cocaine. Slight loss of fluid vitreous Patient partially imbecile; very restless during convalescence. 18 days.	Nov. 26, 1886. V. = < 0.3

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
9	F 32 Eng. Poor.	7 years. Soft, not quite mature.	Sept. 25, 1886. Græfe. Cocaine. Some cortical left behind. 21 days.	Oct. 16, 1886. V. = < 0.5
10	F. 70 Amer. Fair.	5 years. Normal.	Sept. 28, 1886. Græfe. Cocaine. Normal operation. Small prolapse of iris at inner angle of wound. 24 days.	Oct. 22, 1886. V. = 0.05.
11	M. 63 Amer. Good.	17 years. Normal.	Sept. 30, 1886. Græfe. Cocaine. Capsule tough, nucleus broke into fragments, and was only partially removed. Much bleeding. Iritis ensued. 26 days	Nov. 16, 1886. V. = 0.2
12	M. 60 Amer. Good.	5 years. Normal.	Oct. 6, 1886. Græfe. Cocaine. Normal operation. 15 days.	Nov. 29, 1886. V. = 0.4
13	F. 61 Amer. Good.	1½ years. Normal.	Oct. 8, 1886. Græfe. Cocaine. 15 days.	Oct. 23, 1886. V. = < 0.2
14	F. 42 Canad'n. Fair.	18 years. Traumatic and cretaceous. Normal.	Oct. 9, 1886. Græfe. Cocaine. Some capsule remained behind. 18 days. Capsule operation, April 15, 1887.	April 22, 1887. V. = < 0.5
15	F. 68 Amer. Good.	1 year. Normal.	Oct. 9, 1886. Græfe. Cocaine. Much sticky cortical left behind. Slight loss of vitreous. 18 days. Capsule operation, Nov. 28.	April 8, 1887. V. = 0.1
16	F. 79 Amer. Good.	4 years. Normal.	Oct. 9, 1886. Græfe. Cocaine. Normal operation. 21 days.	April 20, 1887. V. = 0.3
17	M. 64 Irish. Good.	8 years. Normal.	Oct. 12, 1886. Græfe. Cocaine. Normal operation. 16 days.	Nov. 13, 1886. V. = < 0 2
18	F. 57 Amer. Good.	3 years. Normal.	Oct. 13, 1886. Græfe. Cocaine. Normal operation. 19 days.	Nov. 1, 1886. V. = 0.3

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
19	F. 73 Amer. Good.	2 years. Normal.	Oct. 23, 1886. Græfe. Cocaine. Normal operation. 22 days.	Nov. 27, 1886. V. = 0.4
20	F. 78 Amer. Good.	5 years. Normal.	Oct. 24, 1886. Græfe. Cocaine. Normal operation. 13 days.	Nov. 6, 1886. V. = 0.2
21	F. 55 Irish. Good.	2 years. Normal.	Oct. 26, 1886. Græfe. Cocaine. Much manipulation necessary to remove cortical. 17 days.	Nov. 12, 1886. V. = < 0.3
22	F. 36 Am. Good.	18 months. Normal.	Nov. 2 1886. Græfe. Cocaine. Normal operation. 16 days.	Dec. 10, 1886. V. = 0.4
23	M. 74 Am. Good.	1 year. Normal.	Nov. 2, 1886. Græfe. Cocaine. Wound united very slowly. 21 days.	Nov. 23, 1886. V. = 0.4
24	F. 60 Irish. Good.	1 year. Normal.	Nov. 3, 1886. Græfe. Cocaine. Patient very restless during operation. Wound united slowly. 21 days.	Nov. 24, 1886. V. = 0.2
25	F. 70 Am. Medium.	6 years. Normal.	Dec. 15, 1886. Græfe. Cocaine. Normal operation; much collapse of cornea. Protracted convalescence. 25 days.	Jan. 9, 1887. V. = 0.4
26	F. 50 Irish. Good.	16 years. Functions not taken.	Dec. 29, 1886 Græfe. Ether. On dividing capsule with cystitome the lens substance was found soft and thin; it separated to each side, and some vitreous came forward. Remains of lens removed by suction; one fourth of vitreous lost. Iridochoroiditis and phthisis bulbi followed. Ether given on account of restlessness of patient. 60 days..	Feb. 28, 1887. Perception of light.
27	M. 65 Irish. Good.	2 years. Normal.	Jan. 9, 1887. Græfe. Cocaine. Normal operation. 13 days.	Jan. 22, 1877. V. = < 0.6

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
28	F. 50 Irish. Good.		Jan. 15, 1887. Græfe. Ether, on account of restlessness of patient. Normal operation. Antiseptic lotion used to wash out conjunctival sac. The other eye was the seat of irido-choroiditis, and appeared to exert a sympathetic influence on this one. Optico-ciliary neurotomy was done, and subsequently enucleation, but inflammatory process continued a long time. 74 days.	Mar. 30, 1887. V. = < 0.2
29	F. 35 Am. Fair.	Normal.	Jan. 19, 1887. Græfe. Cocaine. 17 days.	Feb. 5, 1887. V. = 0.3
30	F. 65 Irish. Good.	Normal.	Jan. 19, 1887. Græfe. Cocaine. Patient very restless. Lens had to be removed with scoop. Slight loss of vitreous. Iritis on fifth day. Pupil closed. 38 days.	Feb. 16, 1887. Perception of light.
31	M. 60 Am. Fair.	Normal.	Jan. 19, 1887. Græfe. Cocaine. Normal operation. Clear, black pupil left. Good vision. Panophthalmitis followed. 37 days.	Feb. 20, 1887. V. = 0
32	F. 70 Am. Good.	5 years. Normal.	Feb. 10, 1887. Græfe. Cocaine. 32 days.	Mar. 14, 1887. V. = < 0.5
33	M. 70 Amer. Good	2 years. Normal.	Feb. 13, 1887. Græfe. Cocaine. Slight loss of vitreous. Scoop used to remove lens. 23 days.	Mar. 8, 1887. V. = 0.2
34	M. 70 Amer. Fair.	5 years. Normal.	Feb. 24, 1887. Græfe. Cocaine. Normal operation. 14 days	Mar. 10, 1887. V. = < 0.3
35	F. 54 Amer. Fair.	2 years. Normal.	March 4, 1887. Græfe. Cocaine. 22 days,	May 17, 1887. V. = 1
36	M. 56 Amer. Good.	2 years. Normal.	March 4, 1887. Græfe. Cocaine. Slight iritis followed. 27 days.	Mar. 31, 1887. V. = < 0.1

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
37	F. 55 Irish. Good.	1 year. Normal.	March 4, 1887. Græfe. Cocaine. Normal convalescence. 19 days.	Mar. 23, 1887. V. = < 0.3
38	M. 62 German. Good.	2 years. Normal.	March 4, 1887. Græfe. Cocaine. 21 days.	July 1, 1887. V. = < 0.3
39	M. 23 Irish. Good.	Soft. Unknown duration. Normal.	March 11, 1887. Græfe. Cocaine. Normal operation aud convalescence. 19 days.	Mar. 30, 1887. V. = < 0.5
40	F 72 Amer. Good.	1½ years. Normal.	March 12, 1887. Græfe. Cocaine. Great corneal collapse. Much cortical left behind. Anterior chamber carefully irrigated. Irido-choroiditis followed and gave rise to symptoms of sympathetic ophthalmia. Enucleation. 38 days.	V. = 0
41	M 70 Eng. Good.	9 years. Normal.	April 5, 1887. Græfe. Cocaine. Mild iritis followed. 18 days.	April 21, 1887. V. = < 0.3
42	F. 55 Irish. Good.	Normal.	April 5, 1887. Græfe. Cocaine. Iritis followed Patient to return for capsule operation. 35 days.	May 9, 1887. V. = < 0.1
43	M. 66 Amer. Good.	7 years. Normal.	April 7, 1887. Preliminary iridectomy had been done. Græfe. Cocaine. 21 days.	April 28, 188 7 V. = < 0.4
44	M. 72 Amer. Good.	4 years. Normal.	March 22, 1887. Græfe. Cocaine. 21 days.	April 12, 1887. V. = 0.3
45	F. 54 Irish. Good.	5 years. Normal.	March 25, 1887. Græfe. Cocaine. Slight iritis. 26 days.	April 20, 1887. V. = < 0.2
46	M. 54 Eng. Good.	6 years. Normal.	April 1, 1887. Græfe. Cocaine. Normal operation. A mild iritis followed. 18 days	April 9, 1887. V. = 0.4

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
47	F. 32 Eng. Fair.	1 year. Normal.	April 1, 1887. Græfe. Cocaine. Iritis and chemosis. 35 days.	May 4, 1887. V. = 0.4
48	M. 41 Am. Good.	3 years. Normal.	April 8, 1887. Lens tremulous. Græfe. Cocaine. Iris folded in front of knife and was excised. 21 days.	April 29, 1887. V. = 1
49	F. 45 Irish. Good.	3 years Normal.	April 13, 1887. Græfe. Cocaine. Strict antisepsis. Normal operation. Some cortical substance left in pupil. Iritis. 26 days.	May 19, 1887. V. = < 0.9
50	M. 54 Irish. Good.	8 years. Normal.	April 13, 1887. Græfe. Cocaine. Strict antisepsis. Normal operation. 16 days.	June 2, 1887. V. = < 9.7
51	M. 65 Irish. Good.	2 years. Normal.	April 15, 1887. Græfe. Cocaine. Antisepsis. Normal convalescence. 25 days.	June 9, 1887. V. = < 0.3
52	F. 66 Irish. Good.	9 years. Normal.	April 19, 1887. Græfe. Cocaine. Antisepsis. Normal convalescence. 35 days.	May 17, 1887. V. = < 0.4
53	F. 69 Amer. Good.	3 years. Normal.	April 20, 1887. Græfe Cocaine. Antisepsis. A sudden motion of patient during excision of iris caused hemorrhage. Slight bleeding into anterior chamber on thirteenth day after operation. 20 days.	May 9, 1887. V. = < 0.3
54	F. 63 Amer. Good.	2 years. Normal.	April 20, 1887. Iris tremulous. Græfe. Cocaine. Antisepsis. Slight prolapse of iris into wound, following an accidental blow on eye during convalescence. 15 days.	May 4, 1887. V. = < 0.3
55	F. 60 Amer. Good.	1 year. Normal.	April 22, 1887. Græfe. Cocaine. Antisepsis. Slight iritis followed. 26 days.	June 2, 1887. V. = < 0.7
56	F. 73 Eng. Good.	2 years. Normal.	April 22, 1887. Græfe. Cocaine. Antisepsis. 21 days.	May 12, 1887. V. = < 0.4

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
57	F. 54 Amer. Good.	2 years. Normal.	April 22, 1887. Græfe. Cocaine. Antisepsis. 20 days.	May 11, 1887. V. = 0.4
58	M. 76 Irish. Good.	3 years. Normal.	April 30, 1887. Græfe, Cocaine. Antisepsis. Patient very myopic. Choroiditis in other eye. 15 days.	May 14, 1887. V. = 0.04
59	F. 54 Amer. Good.	1½ years. Normal.	May 3, 1887. Græfe. Cocaine. Antiseptic precautions. 14 days.	June 28, 1887. V. = 1
60	M. 67 Eng. Good.	6 years. Hypermature. Normal.	May 18, 1887. Græfe. Cocaine. Numerous posterior synechiæ. Small shrunken lens. Antisepsis. Piece of capsule left in pupil. 25 days. Secondary operation, July 5.	June 13, 1887. Counts fingers. Oct. 10. V. = 0.03 (Has granulations and pannus.)
61	F. 70 German. Good.	3 years. Normal.	May 25, 1887. Græfe. Cocaine. Antisepsis. 13 days.	June 7, 1887. V. = 0.3
62	M. 45 Irish. Good.	6 years. Normal.	May 27, 1887. Græfe. Cocaine. Antisepsis. 17 days.	June 21, 1887. V. = < 0.6
63	M. 46 Amer. Good.	3 years. Normal.	May 28, 1887. Græfe. Cocaine. Antisepsis. 20 days.	June 18, 1887. V. = < 0.4
64	F. 76 Am. Good.	3 years. Normal.	June 9, 1887. Græfe. Cocaine. 19 days.	July 7, 1887. V. = 0.1
65	F. 64 Irish. Good.	2 years. Normal.	June 11, 1887. Græfe. Cocaine. 17 days.	June 28, 1887. V. = < 0.4
66	M. 68 Am. Good.	6 years. Normal.	June 12, 1887. Græfe. Cocaine. Much hemorrhage into anterior chamber. 18 days.	July 15, 1887. V. = 0.2

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
67	F. 65 Irish. Good.	6 years. Normal.	June 14, 1887. Græfe. Cocaine. Patient restless; moved eye at moment of iridectomy. Iritis followed, also prolapse of iris, which was excised. 24 days.	July 8, 1887. V. = 0.2 Aug. 8. V. = 0.5
68	M. 69 Am. Good.	10 years. Normal.	June 14, 1887. Græfe. Cocaine. 13 days.	July 18, 1887. V = 1
69	M. 44 Irish. Good.	3 years. Normal.	June 14, 1887. Græfe. Cocaine. 17 days.	Aug 28, 1887. V. = 0.8
70	F. 70 Am. Good.	1 year. Normal.	June 16. 1887. Græfe Cocaine. 14 days.	July 14, 1887. V. = < 0.2
71	F. 70 Eng. Good.	10 years. Normal.	June 30, 1887. Græfe. Cocaine. Antisepsis. 21 days.	July 21, 1887. V. = < 0.1
72	F. 42 Amer. Good.	Uncertain. Normal.	July 8, 1887. Græfe. Cocaine. 13 days.	July 21, 1887. V. = 0.2
73	F. 66 Amer. Good.	2 years. Normal.	July 14, 1887. Græfe. Cocaine. Much hemorrhage Much conjunctivitis following operation 14 days.	Sept. 23, 1887. V. = < 0.7
74	M. 60 Irish. Good.	5 years. Normal.	July 22, 1887. Græfe. Cocaine. Antisepsis. Some vitreous lost, scoop used. Considerable cortical substance remains in pupil. 22 days.	Sept. 16, 1887. V. = < 0.2
75	F. 79 Amer. Fair.	7 years. Normal.	July 28, 1887. Græfe. Cocaine. Antisepsis. 13 days.	Sept. 19, 1887. V. = < 0.1
76	F 71 Amer. Good.	3 years. Normal.	July 28, 1887. Græfe. Cocaine. Antisepsis. Slight iritis. Pupil blocked with capsule. 22 days. Secondary operation, Sept 1.	Sept. 6, 1887. V. = 0.1

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
77	M. 53 Ger. Good.	Post-polar Cataract. 3 years. Normal.	July 28, 1887. Græfe. Cocaine. Lens extracted in capsule with scoop. Small loss of vitreous. Suture used at apex of wound. 30 days.	Sept. 2, 1887. V. = 0.1
78	F. 60 Irish. Good.	4 years. Normal.	Aug. 8, 1887. Græfe. Cocaine. Moderate iritis, lasting two weeks. 30 days. Secondary operation, Sept. 21.	Sept. 26, 1887. V. = 0.5
79	M. 59 Eng. Good.	4 years. Normal.	Aug. 12, 1887. Græfe. Antisepsis. Cocaine. Oct. 10. Still in house, with iritis and cortical in pupil.	
80	M. 70 Am. Good.	3 years. Normal.	Aug. 18, 1887. Græfe. Cocaine. Antisepsis. 18 days.	Sept. 16, 1887. V. = < 0.3
81	F. 63 Irish. Good.	4 years. Normal.	Aug. 23, 1887. Græfe. Cocaine Antisepsis. Vitreous followed cut, and lens was removed by scoop, emerging in its capsule. Wound united with three sutures. During recovery patient hit eye. 28 days.	Sept. 20, 1887. V. = 0.2
82	M. 64 Eng. Good.	2 years. Normal.	Aug. 24, 1887. Græfe. Cocaine. Antisepsis. 19 days.	Sept. 12, 1887. V. = < 0.6

STATISTICS OF CATARACT EXTRACTIONS, WITHOUT IRIDECTOMY, FOR THE YEAR ENDING AUG. 31, 1887.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	M. 60 Irish. Good.	2 years. Normal.	Jan. 8, 1887. Modified flap. Cocaine. Iod. hydrarg. of potass. 1 to 5,000 before operation. Eserine later. Eye opened on fourth day and small hernia of iris excised. Wound healed slowly, some iris being caught in it. 21 days.	Feb. 12, 1887. V. = < 0.2

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
2	F. 52 Amer. Good.	3 years. Normal.	Jan. 28, 1887. Modified flap. Cocaine. Wound healed well, central movable pupil. Capsule operation June 1. 13 days.	June 3, 1887. V. < 0.5
3	M. 44 Amer. Good.	5 years. Normal.	Jan. 28, 1887. Modified flap. Cocaine. Normal operation. 13 days.	Feb. 23, 1887. V. $= 0.7$
4	F. 56 Eng. Fair.	4 years. Normal.	Feb. 3, 1887. Modified flap. Cocaine. Patient asthmatic, had to sleep in an erect posture after operation. Much troubled with coughing. Iris caught in wound, pupil drawn upward, bulging cicatrix. 20 days.	Feb. 23, 1887. V. $= <0.2$
5	F. 52 Amer. Good.	2 years. Normal.	Feb. 9, 1887. Modified flap. Cocaine. Eye went on well till seventh day, when patient struck eye with hand, opening wound. Hernia of iris occurred and was excised. 17 days.	June 1, 1887. V. $= 0.4$
6	F. 59 Irish. Good.	9 years. Normal.	March 12, 1887. Modified flap. Cocaine. Eserine used after operation. Good central pupil. 17 days.	Mar. 29, 1887. V. $= 1$
7	M. 59 Am. Good.	7 years. Normal.	March 19, 1887. Modified flap. Cocaine. Clear central pupil. 16 days.	April 4, 1887. V. $= 0.3$
8	M. 73 English. Good.	3 years. Normal.	May 8, 1887. Modified flap. Cocaine. Antisepsis. Some synechiæ post. formed during convalescence. 23 days.	June 25, 1887. V. $= 0.4$
9	M. 57 Am. Good.	3 years. Normal.	May 11, 1887. Modified flap. Cocaine. Antisepsis. Lens met with much obstruction in emerging through pupil. 15 days.	May 26, 1887. V. $= 0.4$
10	F. 59 Irish. Good.	3 years. Normal.	May 18, 1887. Modified flap. Cocaine. Antisepsis. 12 days	June 6, 1887. V. $= 0.5$

No.	Sex. Age. Nation-ality. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
11	M. 64 Irish. Good.	1½ years. Immature. Normal.	June 11, 1887. Modified flap. Cocaine. Antisepsis. After operation anterior chamber was irrigated with a ½ % solution of chloride of sodium, to remove fragments of cortical substance. After recovery, pupil oval. 19 days. Capsule operation, July 20.	Aug. 26, 1887. V. = < 0.5
12	M. 76 Am. Good.	5 years. Normal.	June 12, 1887. Modified flap. Cocaine. Antisepsis. Irrigation after extraction. 10 days.	Aug. 20, 1887. V. = 0.4
13	M. 59 Irish. Good.	2 years. Normal.	June 12, 1887. Modified flap. Cocaine. Antisepsis and irrigation of anterior chamber. Some loss of vitreous during latter process. After recovery, iris drawn upwards against wound; pupil oval. 12 days.	July 16, 1887. V. = < 0.8
14	F. 70 Eng. Fair.	2 years. Normal.	June 15, 1887. Modified flap. Cocaine. Antisepsis. After completion of corneal cut, vitreous presented and lens was removed with scoop. Two sutures placed in conjunctival flap, at apex of corneal wound. Hernia of iris occurred the same day. Patient very asthmatic, sleeps in chair. 16 days.	July 27, 1887. V. = < 0.2
15	F. 73 Amer. Good.	Normal.	June 25, 1887. Modified flap. Cocaine. Antisepsis. On fourth day struck eye with hand, opened wound. Iris prolapsed and was subsequently excised. 25 days.	July 20, 1887. V. = 0.05
16	M. 16 Amer. Good.	Congenital. Post-polar. Normal.	June 29, 1887. Modified flap. Cocaine. Antisepsis. Irrigation of anterior chamber. Conjunctival flap left, through which three sutures were taken. 26 days.	Aug. 31, 1887. V. = < 0.6
17	M. 76 Am. Fair.	4 years. Normal.	July 9, 1887. Modified flap Cocaine. Antisepsis. Irrigation. Pain after operation. Pupil slightly drawn up. 11 days.	Aug. 20, 1887. V. = 0.3
18	M. 62 Am. Good.	3 years. Normal.	Aug. 6, 1887. Modified flap. Cocaine. Antisepsis. Irrigation of anterior chamber. Suture of wound at apex. 18 days.	Aug. 24, 1887. V. = < 0.2

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
19	M. 63 Irish. Good.	4 years. Normal.	Aug. 13, 1887. Modified flap. Cocaine. Antisepsis. Irrigation of anterior chamber. Vitreous presented. Three sutures taken in conjunctival flap at apex of cornea. 13 days.	Sept. 12, 1887. V. = < 0.2
20	M. 83 Am. Good.	Normal.	Aug. 27, 1887. Modified flap. Cocaine. Antisepsis. Irrigation of anterior chamber. One suture in conjunctival flap. Central, round pupil. 18 days.	Sept. 14, 1887. V. = < 0.4

STATISTICS OF CATARACT EXTRACTIONS BY SUCTION FOR THE YEAR ENDING AUG. 31, 1887.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Remarks. Duration of Treatment.	Vision.
1	M. 18 Am. Good.	Traumatic. 5 weeks. Normal.	Oct. 6, 1886. Suction. Cocaine. 15 days. Capsule operation, Nov. 4, 1886.	Nov. 11, 1886. V. = 0.3
2	F. 18 Norw'n. Good.	Traumatic. 17 days.	Dec. 30, 1886. Suction. Cocaine. 9 days.	Jan. 10, 1887. V. = < 0.3
3	M. 27 Am. Good.	Traumatic. 1 month.	Jan. 19, 1887. Suction. Cocaine. A discission of capsule first done; later, suction; followed some weeks later by second capsule operation. 30 days.	Feb. 18, 1887. V. = 0.2
4	M. 16 Am. Good.	Traumatic. 6 years.	Feb. 27, 1887. Suction. Cocaine. Clear black pupil left. 10 days.	June 15, 1887. V. = 0.7
5	M. 41 Am Fair.	4 years. Normal.	June 2, 1887. Suction. Cocaine. Operation removed about two thirds of soft cataract, leaving several semi-solid masses. 19 days.	Sept. 1, 1887. V. = < 0.9

No.	Sex. Age. Nation. Health.	Duration of Cataract Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
6	M. 22 Am. Good.	4 years. Normal.	June 3, 1887. Suction. Cocaine. Normal operation; clear pupil left; counted fingers afterwards. Severe pain, however, came on the night of the operation, followed by panoph thalmitis. 32 days.	July 5, 1887. V. = 0
7	F. 14 English. Good.	2 months. Traumatic.	June 5, 1887. Suction. Cocaine. 11 days.	June 16, 1887. V. = < 0.9
8	F. 7 Amer. Fair.	6 months. Traumatic.	June 14, 1887. Ether. Suction. Only a portion of lens could be removed. 2 days.	June 16, 1887. V. = 0.2
9	M. 63 Amer. Good.	Traumatic. Normal.	June 27, 1887. Suction twice performed, under cocaine, at an interval of 18 days. Much inflammation ensued, pupil was blocked with capsule. 53 days.	Aug. 18 1887. Perception of light.

SIXTY-THIRD

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY,

FOR THE YEAR

1888.

BOSTON:
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No. 24 Franklin Street.

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OF THE

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1888-89.

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REPORT OF THE MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1888.

In behalf of the Managers of the Massachusetts Charitable Eye and Ear Infirmary, we herewith present the report of the surgeons for the year ending Sept. 30, 1888.

The work of the Infirmary continues steadily to increase, and during the year 1888 has exceeded the record of any previous year.

If the ratio of growth shown in the following table is maintained, extensive additions to the building will, erelong, become necessary; and it should be borne in mind that this growth continues in spite of the greater care now taken to exclude cases which are improper subjects for charitable treatment.

YEAR.	WHOLE NUMBER OF PATIENTS.	WHOLE NUMBER OF OPERATIONS.	OPERATIONS FOR CATARACT.
1868	4,448	283	68
1873	5,975	379	64
1878	9,465	419	76
1883	9,929	1,078	96
1888	13,140	1,695	126

It is interesting to note that the new anesthetic, cocaine, the introduction of which was first referred to in the report of 1885, has now almost supplanted ether in cataract cases, the latter being used only with nervous and unmanageable patients.

Improved knowledge and methods, and greater antiseptic precautions are certainly producing better results, and the beneficent work of the Infirmary was probably never better performed than now.

The Managers have been able during the last year to make many improvements and repairs which have long been needed, but which have been delayed by the insufficiency of our resources.

Among the more important of these changes within the building may be mentioned the addition of a bay-window in the operating-room, and the construction of a separate entrance and waiting-room for ear patients, with a stairway connecting the same. New surgical instruments have also been bought, and the first steps taken towards the creation of a consulting library of ophthalmic and aural surgery for the use of the staff.

On the outside of the Infirmary, the crumbling stone-work on the front of the building has been redressed; the plank walk leading from Charles Street to the patients' entrance has been replaced by brick; the driveway and part of the court-yard have been paved with granite blocks; a neat iron fence, to prevent the risk of accidents to our younger patients, placed upon the sea-wall; the drying yard for clothes has been removed from the court-yard to a less conspicuous situation, and its former site has been turned into a grass-plat, adding much to the neatness and beauty of the premises, and thus making a pleasant out-of-door resort for the patients.

These improvements have been expensive, but they could

not well be longer deferred, and others remain to be made which are almost equally needed.

During the past year, at the suggestion of the Surgeons, and "in view of the steady growth of the Aural Department, which is now the second in size in the United States," that department has been made distinct in its organization and appointments from the Ophthalmic Department. Its staff has also been increased, notably by the valuable addition of Dr. J. Orne Green to the number of its surgeons; Dr. Shaw having resigned, after a most faithful, prolonged, and unbroken service of twenty-seven years as aural and ophthalmic surgeon, in order to devote his attention to the Ophthalmic Department alone.

Arrangements also have been made which have greatly increased the facilities for clinical instruction in the Aural Department, the Managers believing that, next to its first duty of directly relieving suffering, an important function of the Infirmary is to aid in providing the community with trained specialists. In this way the benefit of such an institution may be almost indefinitely enlarged.

This very important step in increasing the scope of this charity, and which adds materially to the labor of the Surgeons, has long been desired by the Managers, and they were accordingly much gratified at receiving, in May last, a vote from the Surgeons embodying their unanimous proposal "that the use of the Aural clinic for purposes of instruction, in connection with the Harvard Medical School or otherwise, should be favored."

The necessary authority was promptly given by the Managers, provided that it "shall not interfere with due attention to the patients, whose interests should always be of paramount importance."

This arrangement has already gone into effect.

Later in the year a similar proposal was received from the

Surgeons, "to give every possible facility for teaching in the Ophthalmic Department," and arrangements are now making for that purpose.

In conclusion, the Managers feel that the past year has been a remarkable one in the history of the Infirmary, and they desire to express their deep appreciation of the continued generosity of the Commonwealth, without which the greatly extended work of this charity would be impossible, of the gratuitous and devoted services of the Staff, and lastly of the admirable administration of its Superintendent and Matron.

ROGER WOLCOTT.
EDWARD I. BROWNE.

REPORT OF THE SURGEONS.

To the Managers of the Massachusetts Charitable Eye and Ear Infirmary.

For the Year ending Oct. 1, 1888.

Gentlemen, — The Surgeons of the Infirmary herewith present a detailed report of the work of the Institution during the year ending Oct. 1, 1888.

The whole number of patients seen in both departments was 13,140, divided as follows : —

Eye patients	9,638
Ear "	3,502

This is an increase over the preceding year of 476, and exceeds the average yearly addition to the clinic.

This additional work, while satisfactory as showing the appreciation of the Infirmary by the community, and the large amount of charitable work done by it, points to the pressing need of enlarged accommodations to meet this steadily increasing demand. The Institution is frequently so crowded that it is not an uncommon occurrence for patients to be refused admittance for lack of accommodations.

There have been 1,695 operations performed during the year. Of these 126 were for the extraction of cataract, this being a considerable increase over any preceding year.

We desire to express our appreciation of the recent improvements made in the hospital, and also to refer with pleasure to the faithful services of the Assistant Surgeons and Internes, and the efficient work of the Superintendent and Matron in the general management of the house

HENRY W. BRADFORD, M. D.,
E. D. SPEAR, M. D.,
For the Board of Surgeons.

STATISTICS.

OCT. 1, 1887, to OCT. 1, 1888.

CLASSIFICATION OF PATIENTS, DISEASES, AND OPERATIONS.

HOUSE PATIENTS.

Eye Patients:		
Males	376	
Females	231	
	—	607
Ear Patients:		
Males	15	
Females	14	
	—	29
Total House Patients		636

OUT-PATIENTS.

Eye Patients:		
Males	4,823	
Females	4,208	
	———	9,031
Ear Patients:		
Males	1,902	
Females	1,571	
	———	3,473
Total Out-Patients		12,504
Total number of patients treated during the year,		13,140

Eye Patients.

Residents of Boston	4,968
" other parts of Massachusetts	3,752
" Maine	100
" New Hampshire	90
" Vermont	31
" Rhode Island	20
" Connecticut	14
" other States	24
" British Provinces	27
" Mexico	1
" England	1
" Wales	1
" Unrecorded	2
Total	9,031

Occupation of Eye Patients.

Agents	27
Barbers	28
Blacksmiths	65
Carpenters	158
Children	2,101
Clergymen	3
Clerks	313
Dentists	1
Domestics	682
Engineers	20
Farmers	96
Firemen	31
Fishermen	22
Hatters	3
Home	1,034
Laborers	714
Leather workers	52
Masons	61

Mariners	59
Mechanics	402
Messengers	72
Metal workers	243
Milliners	8
Mill operatives	386
Musicians	8
Nurses	39
Painters	86
Photographers	2
Policemen	5
Printers	60
Provision dealers	19
Railroad	86
Rubber workers	28
Saloon keepers	8
Sewing	352
Shoemakers	205
Soldiers	6
Students	39
Stonecutters	150
Tailors	139
Teachers	34
Teamsters	142
Traders	39
Tradesmen	98
Waiters	38
Widows	98
Wood workers	123
From the workhouse	5
From other hospitals	8
Other occupations	142
Unrecorded and unfit	491
Total	9,031

Diseases of the Eye.

Lids.

Abscess	34
Blepharitis	10
Blepharadenitis	472
Burn	7
Chalazion	212
Cuts	13
Cyst	13
Ecchymosis	15
Ectropion	14
Entropion	9
Epicanthus	2
Eczema	21
Epithelioma	11
Foreign body	67
Hœmatoma	1
Herpes	1
Hordeolum	67
Lagophthalmus	1
Lippitudo	2
Milium	3
Nævus	2
Œdema	46
Ptosis	16
Pediculus	3
Symblepharon	4
Tear of lid	3
Traumatic Cicatrix	1
Trichiasis	44
Tumor	13
Verruca	12
Xanthelasma Palp	3
Total	1,122

Lachrymal Apparatus.

Abscess	59
Catarrh lachrymal sac	33
Epiphora and obstruction of lachrymal ducts	211
Eversion of punctum	3
Lachrymal fistula	5
Mucocele	24
Traumatic Epiphora	11
Total	336

Conjunctiva.

Burns	26
Chemosis	10
Conjunctivitis, catarrhal	1,485
" diphtheritic	3
" purulent	21
" neonatorum	34
" granular	164
" " with pannus	60
" phlyctenular	358
" traumatic.	53
" strumous	17
Cut of	7
Cyst	3
Ecchymosis	60
Foreign body	27
Hyperæmia	37
Hypertrophy	1
Œdema of	11
Pinguecula	21
Pigmentation	1
Pterygium	67
Tumor	2
Total	2,468

Cornea and Sclera.

Abrasion	51
Abscess	8
Anterior staphyloma	16
Burn	24
Epithelioma of cornea and conjunct	2
Foreign body	744
For. bod. ant. chamber	1
Inflamed leucoma	79
Keratitis simplex	186
" phlyctenular	241
" interstitial	12
" traumatic	27
" fascicular	6
Keratoconus	4
Kerato-iritis	13
Lead deposit of cornea	1
Leucoma	306
Rupture of cornea	10
Tumor	1
Ulcer	431
" vascular	52
" traumatic	37
Ulcer serpens	12
Wound of cornea	50
Episcleritis	27
Foreign body on sclera	3
Rupture of sclera	13
Scleritis	14
Sclero-keratitis	12
Staphyloma of sclera	3
Tumor of sclera	1
Wound " "	1
Wound of ciliary region	9
Total	2,398

Iris and Ciliary Body.

Ciliary injection	11
Coloboma of iris	4
Hæmorrhage into anterior chamber	24
Hypopion	25
Irido-dialysis	4
Iridodonesis	12
Iridoplegia, traumatic	2
Iritis	190
" syphilitic	20
" traumatic	13
Mydriasis	24
Occluded pupil	6
Prolapse of iris	18
Synechia, anterior	43
" posterior	41
Wound of ciliary body	10
Total	457

Choroid.

Albinism	2
Atrophy	2
Choroiditis	56
Irido-choroiditis sympathetic	3
" "	12
Retino choroditis	6
Rupture of choroid	2
Sclerotico-choroiditis posterior	15
Staphyloma posterior	23
Glaucoma	37
Total	166

Lens.

Dislocation of	22
Cataract, mature	107
" anterior pyramidal	1
" capsular	17
" cortical	4
" congenital	13
" cretaceous	8
" incipient	239
" lamellar	3
" posterior polar	5
" traumatic	64
Lenticular opacity	10
Total	493

Vitreous.

Cholesterine in	2
Fibrous exudation	1
For. bod.	1
Hæmorrhage into	13
Hyalitis	2
Muscæ volitantes	16
Opacities	51
Total	86

Retina.

Congestion of veins	1
Embolism of central artery	1
Glioma	1
Hæmorrhage into macula	4

Neuro-retinitis	9
Pigmented deposit	1
Retinitis	11
" albumenurica	4
" apoplectica	6
" pigmentosa	7
Rupture of retina	1
Separation of	35
Total	81

Optic Nerve.

Atrophy	47
Hyperæmia	2
Neuritis	31
Total	80

Eyeball and Orbit.

Disorganized globe	30
Exophthalmus	3
Foreign body	8
Hydrophthalmus	4
Inflamed stump	3
Irritable orbit	2
Necrosis of maxilla	2
Phthisis bulbi	27
Proptosis	1
Rupture of globe	1
Tumor of globe	3
" " orbit	1
Total	83

Refraction and Accommodation.

Asthenopia	69
Astigmatism	503
Hypermetropia	963
Myopia	261
Paralysis of accommodation	8
Presbyopia	221
Spasm of accommodation	18
Total	2,043

Muscular Affections and Neuroses.

Blepharospasmus	16
Ciliary neuralgia	5
Diplopia	15
Insufficiency of internal recti	9
Nictitation	3
Nystagmus	19
Paralysis of facial	6
" " third pair	18
" " sixth pair	10
Strabismus convergens	174
" divergens	30
Supra orbital neuralgia	7
Total	313

Affections of the Percipient Apparatus.

Amblyopia	25
" ex abusu	49
Hemeralopia	1
Hemiopia	2
Nyctalopia	4
Scotoma	5
Total	86

General Injuries.

Blows and Cuts	106
Burns	7
Total	113

Miscellaneous.

Eloped	37
No disease	23
Persistent hyaloid artery	2
Referred to other institutions	33
Referred to ear department	5
Unfit	492
Unrecorded	131
Total	723

Summary of Eye Diseases.

Eyelids	1,122
Lachrymal apparatus	336
Conjunctiva	2,468
Cornea and sclera	2,398
Iris and ciliary body	457
Choroid	166
Vitreous	86
Lens	493
Retina	81
Optic nerve	80
Lesions of eyeball and orbit	83
Refraction and accommodation	2,043
Muscular affections and neuroses	313
Affections of the percipient apparatus	86
General injuries	113
Miscellaneous	723
Total	11,048

Operations on the Eye.

Lids.

Ankyloblepharon	2
Chalazion	114
Cut of lid, sutured	2
Ectropion	2
Entropion	2
Excision of cyst	11
" " epithelioma	2
" " new growth	9
Epicanthus	1
Green's operation for trichiasis	9
Other " " "	12
Obliteration lac. sac	3
Incision of abscess	21
Plastic operation epithelioma	1
Plastic operation ectropion	2
Ptosis	1
Symblepharon	2
Transplantation of rabbit's lid	1
Total	202

Conjunctiva.

Desmarres' operation for pterygium	21
Incision of cyst	1
Peritomy	1
Removal of bone	1
Verruca	1
Total	25

Cornea.

Cauterization of ulcer	2
Paracentesis hypopyon	7
" ulcer	4
" irido-choroiditis	2
Puncture of ulcer	1
Removal of foreign bodies	747
" " growth	3
Sæmisch's op. for ulcer serpens	16
Total	782

Iris.

Division of anterior synechia	7
" " posterior	2
Iridectomy for artificial pupil	37
" " chronic iritis	2
" foreign body	2
" preparatory to cataract extraction	3
" " for glaucoma	10
" irido-choroiditis	1
" occluded pupil	3
" prolapsed iris	8
Iridotomy	1
Total	76

Lens.

Discission of cataract	4
" " congenital cataract	5
" " traumatic "	8
Extraction of senile cataract (Græfe)	97
" " " " (modified flap)	17

Extraction of soft or traumatic (suction)	12
" " cretaceous lens in ant. chamber	1
Capsule operations	12
" " crochet needle and hook	26
Total	182

Enucleation.

For disorganized globe	28
" epithelioma of cornea	1
" for. body in globe	3
" glaucoma	1
" glioma	1
" hydrophthalmus	1
" melano sarcoma of globe	1
" rupture of	5
" sympathetic ophthalmia	20
Total	61

Muscles.

Strabismus convergens	102
" divergens	8
Advancement of internal rectus	9
" " external "	4
" " tenons capsule	4
Total	127

Other Operations.

Bowman's on tear passage	18
Opening lachrymal abscess	9
" orbital "	1
Puncture sheath of nerve	1
Miscellaneous	6
Removal of anterior portion of eyeball	1
Total	36

Ear Patients.

Out-Patients.

Residents of Boston	2,136
" " other parts of Massachusetts	1,231
" " Maine	32
" " New Hampshire	26
" " Vermont	8
" " Rhode Island	5
" " Connecticut	4
" " other States	8
" " British Provinces	19
Unrecorded	4
Total	3,473
Males	1,902
Females	1,571
Total	3,473

STATISTICAL REPORT OF THE DISEASES OF THE EAR.

OCT. 1, 1887, TO OCT. 1, 1888.

Abrasion meatus	1
Abscess of lobe	4
" " meatus	13
Aspergillus	5
Atresia of meatus	5
Cyst of auricle	6
Deaf-mutism	14
Eczema of auricle and meatus	44
" " post-aural	3
Exostosis	1
Fibroma of lobe	4
Foreign body in meatus	19
" " " lobe	1
Frost bite of auricle	2
Hæmorrhage into tympanum	4
Injury to auricle	3
Keratosis obturans	15
Lacerated meatus	1
Obstruction of meatus with cerumen	557
Othæmatoma	5
Otitis externa circumscripta	69
" " diffusa	53
" media purulenta chronica	684
" " " with post-aural abscess	20
" " " " facial paralysis	3
" " " " polypus	59
" interna	6

Otitis media acuta	206
" " " with serous accumulation	53
" " catarrhalis chronica	922
" " subacuta	89
" catarrhalis tubalis	18
" media purulenta acuta	90
" " " healed	85
Other diseases	12
Otlagia neuralgica	52
Papilloma auricle	1
Perichonditis	1
Polypus canal	1
Tinnitus aurium	14
Traumatic rupture, membrana tympani	9
Wound of membrana tympani	1
Unfit	281
Unrecorded	37
Total	3,473

Occupation of Ear Patients.

Actors	7
Agents	34
Artists	7
Barbers	26
Bookkeepers	33
Butchers	10
Cigar makers	16
Clergymen	7
Clerks	180
Domestics	267
Drivers	40
Engineers	40

Engravers	2
Errand boys	20
Farmers	40
Farm hands	32
Firemen	15
Fishermen	16
Home	212
Housekeepers	38
Janitors	11
Jewellers	17
Laborers	735
Lamp-lighters	6
Leather workers	30
Letter carriers	4
Mariners	40
Mechanics	607
Milliners	3
Mill hands	96
Musicians	7
News dealers	4
Nurses	20
Painters	46
Pedlers	21
Physicians	5
Police officers	9
Printers	31
Railroad	45
Seamstresses	119
School	81
Shoemakers	127
Soldiers	3
Students	6
Tailors	61
Teachers	15

Teamsters	96
Traders	131
Watchmen	5
Other occupations	58
Total	3,473

Operations on the Ear.

Abscess of lobe incised	12
" " meatus incised	23
" " post-aural incised	17
" " supra-aural incised	1
Foreign bodies removed	19
Fibrous tumors of lobe removed	4
Othæmatoma of lobe incised	4
Papilloma auricle	1
Paracentesis membrana tympani	68
" hæmorrhagic bulla	4
Polypi removed by torsion	2
" " " snare	43
Sequestrum removed from meatus	5
Shaft of ear-ring removed from lobe	1
Total	204

STATISTICS OF DISEASES OF HOUSE PATIENTS.

Eye Patients.

Abscess of cornea	6
Ankyloblepharon	2
Atrophy of optic nerve	3
Blepharadenitis	4
Burn of cornea	4
Caries and lachrymal abscess	1
Cataract	115
" traumatic	28
" capsular	18
" congenital	17
Choroiditis	1
Conjunctivitis, catarrhal	13
" granular	16
" " with pannus	33
" phlyctenular	5
" purulent	11
Corectopia traumatic	2
Cut of lids	2
Dacryocystitis	3
Dislocation of lens	3
Disorganized globe	14
Epithelioma of cornea	2
" " lid	3
Ectropion	6
Episcleritis	1
Epicanthus	1
Entropion	14

Foreign body in cornea	1
" " " anterior chamber	4
Glaucoma	14
" after Græfe extraction	1
Hæmorrhage into orbit	1
Hydrophthalmus	1
Injury to globe	13
Intra-ocular tumor	2
Irido-choroiditis	8
Iridocyclitis	3
Iridodonesis	2
Iridodyalisis	2
Irritable nerve stump	1
Iritis acute	20
" chronic	8
" rheumatic	1
" syphilitic	4
Keratitis	12
" phlyctenular	10
" interstitial	5
" vascular	2
Leucoma	38
Moluscum contagiosum	1
Neuro-retinitis	1
Neuritis	2
Nystagmus	2
Panophthalmitis	4
Phthisis bulbi	14
Ptosis congenital	1
Retinitis syphilitic	1
Rupture of cornea	3
" " iris	1
Scleritis	2
Sclero-keratitis	5

Sclerotico-choroiditis posterior	1
Separation of retina	4
Staphyloma anterior	11
Strabismus convergens	10
" divergens	10
Symblepharon	2
Sympathetic irritation	10
Sympathetic ophtalmia	1
Synechia, anterior	20
" posterior	5
Trichiasis	9
Tumor at sclero-corneal margin	1
Ulcer of cornea	64
" " hypopion	13
" " prolapse of iris	7
" " traumatic	6
" " " with hypopion	13
" " serpens	2
Vitreous, hæmorrhage into	3
Wound in ciliary region	10
Wound of cornea	23
Miscellaneous	19
Total	756

Ear Patients.

Caries external wall of auditory meatus	2
" posterior wall with polypus	2
Deaf-mutism	2
Otitis media acute simplex	2
" " " with perforation	1
" " " " post-aural abscess	1
" " chronica catarrhalis	1

Otitis media purulenta acute	3
" " " with externa diffusa	1
" " " " mastoid tenderness	1
" " " chronica	2
" " " with polypus	2
" " " " deaf-mutism	2
" " " " mastoid abscess	1
" " " " necrosis and facial paralysis	1
" " " " adenoids	1
" externa diffusa	1
Post-aural abscess	1
Supra-aural abscess	1
Unrecorded	1
Total	29

REPORT OF ONE HUNDRED AND TWENTY-SIX OPERATIONS

FOR THE

Extraction of Cataract,

DONE AT THE MASSACHUSETTS CHARITABLE EYE AND EAR INFIRMARY BY THE OPHTHALMIC STAFF DURING THE YEAR ENDING AUG. 31, 1888.

COMPILED BY HENRY W. BRADFORD, M. D.

Of the 126 operations for cataract performed at the Infirmary during the past year, 97 were done by the method of Græfe, modified, 17 by the modified flap, and 12 by the suction method.

Of the 97 operated on according to the method of Græfe, 93 were cases of uncomplicated senile cataract.

The following table gives the result, the vision being taken, in the majority of cases, at the time of discharge: —

Vision 1.0	1	Vision 0.2	19
" 0.9	1	" 0.1	9
" 0.8	3	" 0.05	1
" 0.7	5	Perception of light	2
" 0.6	3	Unrecorded	2
" 0.5	9	Total loss	2
" 0.4	16		
" 0.3	20	Total	93

Of the 4 cases discharged with perception of light and with vision unrecorded, future useful sight is probable in all, after secondary operation, or the use of cataract lenses.

In regard to the two cases of total loss, No. 78, upon the removal of the bandage, was able to count fingers. The

subsequent development of a purulent conjunctivitis was no doubt due to infection, and is not to be regarded as a failure of operative measures.

The other case, No. 62, in which panophthalmitis ensued shortly after the operation without apparent cause, must be considered as a failure, probably due to the unfavorable condition of the eye, as indicated by the corneal collapse during the operation.

There were 17 cases operated on according to the modified flap method, 16 being senile cataracts and 1 traumatic. In none of these patients was there any accident at the time of operation, although, during their recovery, prolapse of the iris occurred in 4 of the 17 cases, which had been carefully selected as suitable for this form of extraction. Vision resulted as follows: —

Vision 1.66	1	Vision 0.3	3
" 1.	2	" 0.2	3
" 0.7	2	" 0.1	2
" 0.5	1		
" 0.4	3	Total	17

The cases in which the operation of suction was resorted to, 12 in number were for the most part traumatic cataracts complicated with serious injuries to the globe.

The estimated vision is as follows: —

Vision 1.25	1	Vision 0.2	1
" 1.	1	" 1. m.	1
" 0.7	1	Motion of hand	1
" 0.6	1	Unrecorded	4
" 0.4	1		
		Total	12

During the past year, antisepsis has been generally adopted by the staff, and is now used in the majority of operations upon the eye. The use of cocaine has in a great measure supplanted that of ether, the latter having been used but 4

times in 126 cataract extractions, being adopted only in case of unruly or unmanageable patients. Out of 1,491 miscellaneous operations, ether was used only 170 times.

Appended are tabulated statistics of cataract extractions.

STATISTICS OF CATARACT EXTRACTIONS, WITH IRIDECTOMY, FOR THE YEAR ENDING AUG. 31, 1888.

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	M. 73 Amer. Fair.	7 years. Normal.	Sept. 1, 1887. Græfe. Cocaine. Antiseptic precautions. 19 days. July 13, 1888. Capsule operation.	July 19, 1887. V. = 0.2
2	F. 63 Irish. Good.	5 years. Normal.	Sept. 6, 1887. Græfe. Cocaine. Antiseptic precautions. 20 days. Oct. 19. Secondary operation for opaque capsule.	Oct. 24, 1887. V. = 0.3
3	M. 74 Irish. Good.	8 years. Normal.	Sept. 6, 1887. Græfe. Cocaine. Normal. 23 days.	Aug. 30, 1888. V. = 0.4
4	M. 70 Irish. Good.	3 years. Normal.	Sept. 14, 1887. Græfe. Cocaine. Normal. 15 days. Oct. 19, 1887. Capsule operation performed. Floating capacities and choroiditis.	Sept. 29, 1887. V = 0.3
5	F. 63 Amer. Fair.	4 years. Normal.	Sept. 15, 1887. Græfe. Cocaine Antiseptic precautions. 18 days.	Oct. 29, 1887. V. = 0.4
6	F. 60 Italian. Good.	2 years. Normal.	Sept. 16, 1887. Græfe. Cocaine. Antiseptic precautions. Patient became delirious and was removed by relatives, Oct. 3, 1887. Eye doing well. 17 days.	V. not taken.
7	M. 64 Irish. Good.	1 year. Normal.	Sept. 16, 1887. Græfe. Cocaine. Antiseptic precautions. Normal convalescence. 31 days.	Oct. 17, 1887. V. = 0.5
8	F. 75 Amer. Good.	5 years. Normal.	Sept. 20, 1887. Græfe. Cocaine. Antiseptic precautions. Normal. 21 days.	Oct. 11, 1887. V. = 0.3
9	M. 76 Irish. Good.	20 years. Normal.	Sept. 20, 1887. Græfe. Cocaine. Antiseptic precautions. Normal recovery. 18 days.	Oct. 8, 1887. V. = 0.1

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
10	F. 47 French. Good.	12 years Normal.	Sept. 23, 1887. Græfe. Cocaine. Antiseptic precautions Convalescence normal. 15 days.	Oct. 18, 1887. V. = 0.9
11	F. 64 Irish. Fair.	2 years. Normal.	Sept. 23, 1887. Græfe. Cocaine. Antiseptic precautions. Normal recovery. 28 days.	Oct. 21, 1887. V. = 0.1
12	F. 42 Irish. Good.	7 years. Normal.	Sept. 23, 1887. Græfe. Cocaine. Antiseptic precautions. Rapid recovery. 15 days.	Oct. 8, 1887. V. = 0.3
13	M. 77 Amer. Good.	2 years. Normal.	Sept. 24, 1887. Græfe. Cocaine. Antiseptic precautions. Considerable amount of cortical. Normal. 14 days.	Oct. 8, 1887. V. = 0.2
14	F. 31 Amer. Good.	8 years. Normal.	Sept. 27, 1887. Græfe. Cocaine. Antiseptic precautions. Normal. 11 days.	Oct. 8, 1887. V. = 0.1
15	F. 69 Amer. Good.	3 years. Normal.	Sept. 30, 1887. Græfe. Cocaine. Antiseptic precautions. Patient highly myopic. Normal recovery. 19 days.	Oct. 19, 1887. V. = 0.2 Without glass.
16	M. 70 Irish. Good.	2 years. Normal.	Oct. 1. 1887. Græfe. Cocaine. Normal. 15 days. Oct. 19, 1887. Capsule operation.	Oct. 15, 1887. V. = 0.3
17	F. 63 Irish. Good.	3 years. Normal.	Oct. 1, 1887. Græfe. Cocaine. Anterior capsule removed by forceps. Normal convalescence. 24 days.	Oct. 24, 1887. V. = 0.5
18	F. 70 Irish. Good.	1 year. Normal.	Oct. 4, 1887. Græfe. Cocaine. Antiseptic precautions. Recovery retarded from cortical in anterior chamber. 30 days	Nov. 3, 1887. V. = 0.03
19	M. 71 Amer.	3 years. Normal.	Oct. 5, 1887. Græfe. Cocaine. Antiseptic precautions. Normal. 17 days.	Nov. 16, 1887. V. = 0.3

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
20	F. 41 Eng. Good.	10 years. Normal.	Oct. 8, 1887. Græfe. Cocaine. Vitreous presented upon dividing the capsule, but none was lost. 23 days. Oct. 23, 1887. Secondary operation. Iris caught in wound.	Oct. 31, 1887. V. = 0.2
21	M. 63 Amer. Good.	2 years. Normal.	Oct. 11, 1887. Græfe. Cocaine. Antiseptic precautions. Rapid convalescence. 14 days.	Oct. 25, 1887. V. = 0.4
22	M. 68 Norw'n.	3 years. Normal.	Oct. 12, 1887. Græfe. Cocaine. Recovery retarded by non-union of wound, followed by a mild iritis. 37 days.	Nov. 18, 1887. V. = 0.5
23	M. 51 Can. Good.	5 years. Normal.	Oct. 12, 1887. Græfe. Cocaine. Normal convalescence. 15 days.	Nov. 9, 1887. V. = 0.7
24	M. 67 Amer. Good.	12 years. Normal.	Oct. 14, 1887. Græfe. Cocaine. Antiseptic precautions. Recovery normal. 14 days.	Nov. 25, 1887. V. = 0.4
25	F. 63 Norw'n. Good.	1 year. Normal.	Oct. 19, 1887. Græfe. Cocaine. Antiseptic precautions. Normal. 17 days.	Nov. 4, 1887. V. = 0.5
26	F. 80 Amer. Good.	8 years. Normal.	Oct. 21, 1887. Græfe. Cocaine. Antisepsis. Normal. 15 days.	Nov. 5, 1887. V. = 0.3
27	M. 71 Amer. Good.	2 years. Normal.	Oct. 26, 1887. Græfe. Cocaine. Antisepsis. Patient unmanageable, considerable cortical left. Operation was followed by traumatic iritis, which lasted three weeks. 42 days. March 27, 1888. Iridectomy performed. April 17, 1888. Iris torn with needle and hook.	May 19, 1888. V. = 0.1
28	F. 65 Irish. Fair.	2 years. Normal.	Oct. 27, 1887. Græfe. Cocaine. Antisepsis. Normal. 18 days.	Nov. 14, 1887. V. = 0.5

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
29	F. 65 Irish. Good.	3 years. Normal.	Nov. 4, 1887. Græfe. Cocaine. Antiseptic precautions. Normal. 14 days.	Nov. 18, 1887. V. = 0.06
30	F. 64 Norw'n. Good.	4 years. Normal.	Nov. 9, 1887. Græfe. Cocaine. Antiseptic precautions. Normal convalescence. 15 days.	Nov. 24, 1887. V. = 0.2
31	F. 55 Can. Good.	6 years. Normal. Corneal opacities.	Nov. 12, 1887. Græfe. Cocaine. Lens removed in its capsule. Small amount of vitreous lost. Morgagnian cataract. During recovery, iris prolapsed. Patient removed by her husband against advice 23 days.	Dec. 5, 1887. V. = Fingers at 3 m.
32	M. 77 Eng. Good.	1 year. Normal.	Nov. 14, 1887. Græfe. Cocaine. Antisepsis. Slight corneal opacity. Rapid recovery. 14 days.	Nov. 28, 1887. V. = 0.2
33	F. 68 Eng. Good.	10 years. Normal.	Nov. 15, 1887. Græfe. Cocaine. Antisepsis. Normal. 16 days.	Dec. 1, 1887. V. = 0.4
34	M. 59 Amer. Good.	2 years. Normal.	Nov. 16, 1887. Græfe. Cocaine. Antisepsis. Normal convalescence. 12 days.	Dec. 14, 1887. V. = 0.40.
35	M. 68 Amer. Good.	2½ years. Normal.	Oct. 28, 1887. Græfe. Cocaine. Antisepsis. Normal recovery. 18 days.	Nov. 15 1887. V. = 0.7
36	F. 64 Norw'n Good.	4 years. Normal.	Nov. 24, 1887. Græfe. Cocaine. Antiseptic precautions. Tough capsule, much of which was necessarily left in pupil. Six days a sharp attack of iritis supervened, which left an occluded pupil and iris bombay, but projection and perception good. 29 days.	Dec 23, 1887. V. = light perception.
37	F. 60 Irish. Good.	9 months. Normal.	Dec. 2. 1887. Græfe. Cocaine. Normal operation and recovery. 21 days.	Jan. 5, 1888. V. = 0.3

No.	Sex. Age Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
38	F. 75 Irish. Good.	7 months. Normal.	Dec. 8, 1887. Græfe. Cocaine. Operation normal. Bandage removed third day. Cornea quite hazy, which, however, passed off by the fourteenth. 25 days.	Jan. 2, 1888. V. = 0.2.
39	M. 73 Amer. Good.	3 years. Normal.	Dec. 17, 1887. Græfe. Cocaine. Antiseptic precautions. Operation and recovery normal. 14 days.	Dec. 31, 1887. V. = 0.2
40	F. 63 Amer. Good.	2 years Normal.	Dec. 22, 1887. Græfe. Cocaine. Operation normal, but wound a long time in healing. 30 days.	Feb. 22, 1888. V. = 0.7
41	F. 63 Irish. Good.	1 year. Normal.	Jan. 10, 1888 Græfe. Cocaine. Iris wounded in making a primary incision, owing to shallow anterior chamber. The presence of cortical retarded recovery. 25 days.	Feb. 5, 1888. V. = 0.5
42	M. 55 Amer. Good.	5 years. Normal.	Jan. 12, 1888. Græfe. Cocaine. Normal convalescence. 16 days.	Jan. 28, 1888. V. = 0.2
43	F. 60 Irish. Good.	3 years. Normal.	Jan. 5, 1888. Græfe. Cocaine. Operation and recovery normal. 21 days.	Jan. 26, 1888. V. = 0.4
44	M. 56 Amer. Good.	15 years. Normal.	Jan. 19, 1888. Græfe. Cocaine. Operation and convalescence normal. 22 days.	Feb. 10, 1888. V. = 0.7
45	M. 75 Amer. Good.	3 years. Normal.	Jan. 20, 1888. Græfe. Cocaine. Lens very adhesive, scoop finally used. No vitreous lost. Normal. 21 days.	Feb. 10, 1888. V. = 0.5
46	M. 48 Amer. Good.	7 months. Normal.	Jan. 23, 1888. Græfe. Cocaine. 17 days.	Feb. 9, 1888. V. = 0.4
47	M. 70 Irish. Good.	5 years. Normal.	Jan. 19, 1888. Græfe. Cocaine. Normal. 17 days. Normal.	Feb. 18, 1888. V. = 0.4

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
48	M. 53 Amer. Good.	4 years. Normal.	Jan. 31, 1888. Græfe. Cocaine. Antiseptic precautions. 15 days.	Mar. 19, 1888. V. = 0.4
49	M. 37 Amer. Fair.	3 months. Normal.	Feb. 2, 1888. Græfe. Cocaine. Vitreous found to be fluid, and small quantity lost during operation. Normal. 27 days.	Feb. 29, 1888. V. = 0.05
50	F. 69 Amer. Good.	6 years. Normal.	Feb. 9, 1888. Græfe. Cocaine. Antiseptic precautions. Normal course of healing. 11 days.	May 8, 1888. V. = 0.3
51	M. 67 W. I. Good.	3 years. Normal.	Feb. 11, 1888. Græfe. Cocaine. Antisepsis. Normal. 21 days.	Mar. 3, 1888. V. = 0.4
52	M. 67 Irish. Fair.	1½ years. Normal.	Feb. 13, 1888. Græfe. Cocaine. Normal. Rapid recovery. 12 days.	April 15, 1888. V. = 0.2
53	M. 36 Irish. Good.	10 months. Tremulous iris. Morgagnian. Normal.	Feb. 8, 1888. Græfe. Cocaine. Antisepsis. Lens removed with scoop, no vitreous lost. Convalescence retarded. 27 days. Choroiditis and atrophy of optic nerve.	Mar. 10, 1888. V. = 0.06
54	F. 82 Irish. Good.	2½ years. Normal.	Feb. 20, 1888. Græfe. Cocaine. Patient had an attack of ague during convalescence. Normal. 18 days.	Aug. 3, 1888. V. = 0.8
55	M. 70 Amer. Good.	3 years. Normal.	Feb. 24, 1888. Græfe. Cocaine. Healing process normal. 21 days. July 27. Secondary operation.	July 25, 1888. V. = 0 4
56	M. 63 Irish. Good.	2 years. Normal.	Feb. 27, 1888. Græfe. Cocaine. Normal recovery. 12 days.	Mar. 10, 1888. V. = 0.2
57	M. 70 Amer. Good.	3 years. Normal.	Feb. 28, 1888. Græfe. Cocaine. 16 days.	April 18, 1888. V. = 1.

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
58	F. 55 Amer. Good.	6 months. Normal.	March 3, 1888. Græfe. Cocaine. Antisepsis. Patient eloped at the end of twelfth day. 12 days.	April 2, 1888. V. = 0.8
59	M. 73 Norw'n. Good.	8 years. Normal.	March 3, 1888. Græfe. Cocaine. Antiseptic precautions. Convalescence normal. 21 days.	Mar. 24, 1888. V. = 0.2
60	F. 51 Scotch. Good.	2 years. Normal.	March 6, 1888. Græfe. Cocaine. Slight amount of vitreous lost owing to pressure of speculum. Retarded. 25 days.	Mar. 31. 1888. V. = 0.3
61	M. 60 Irish. Good.	2 years. Normal.	March 18, 1888. Græfe. Cocaine. Antisepsis. Considerable hemorrhage during operation. Normal. 16 days.	Mar. 26, 1888. V. = 0.2
62	M. 61 Irish. Poor.	8 months. Normal.	March 26, 1888. Græfe. Cocaine. Very small palpebral aperture. Great corneal collapse. Some cortical was necessarily left behind. Suppuration began March 31, followed by panophthalmitis.	V. = 0.
63	M. 61 Amer. Good.	4 years. Normal.	April 4, 1888 Græfe. Cocaine. Antisepsis. Convalescence normal. 13 days.	April 17, 1888. V. = 0.1
64	M. 61 Amer. Good.	3 years. Normal.	April 5, 1888. Græfe. Cocaine. Antisepsis. Patient had slight bloody discharge. and a small prolapse of the iris occurred in consequence of striking the eye. 18 days.	April 23, 1888. V. = 0.2
65	M. 74 Amer. Good.	1½ years. Normal.	April 6, 1888. Græfe. Cocaine. Normal. 14 days.	April 20, 1888. V. = 0.3
66	M. 49 Amer. Good.	5 years. Normal.	April 7, 1888. Græfe. Cocaine. Antisepsis. Considerable amount of capsule left in pupil which could not be dislodged. During convalescence patient struck the eye. 14 days.	April 21, 1888. V. = 0.1
67	M. 49 Pole. Good.	5 years. Normal.	April 14, 1888. Græfe. Cocaine. Antisepsis. Convalescence retarded by a slow iritis. 23 days.	May 7, 1888. V. = 0.6

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic Healing Process. Duration of Treatment.	Vision.
68	M. 69 Amer. Prev'us iritis.	8 years. Normal.	April 18, 1888. Græfe. Cocaine. Antisepsis. Capsule very tough, operation complicated by post. synechia, followed by iritis, and finally excluded pupil. 31 days.	May 20, 1888. V. = 0.05
69	F. 76 Norw'n. Fair.	4 years. Normal.	April 20, 1888. Græfe. Cocaine. Antisepsis. Operation at request of patient. Cataract immature. Normal convalescence 14 days.	July 11, 1888. V. = 0.4
70	M. 69 Eng. Rheumatic.	15 years. Normal.	April 21, 1888. Græfe. Cocaine. Antisepsis. Recovery retarded by mild iritis. 47 days. May 21, 1888. Capsule operation.	June 26, 1888. V. = 0.5
71	M. 72 Amer. Fair.	Hypermature. Normal.	April 26, 1888. Græfe. Cocaine. Antisepsis. Vitreous found to be fluid, and cornea collapsed during operation. Convalescence retarded. 23 days.	May 19, 1888. V. = 0.3
72	M. 60 Irish. Good.	2½ years. Normal.	April 30, 1888. Græfe. Cocaine. Antisepsis. Normal. 19 days. Posterior capsule opaque.	May 19, 1888. V. = 0.1
73	F. 78 Amer. Poor.	1½ years. Normal.	May 1, 1888. Græfe. Cocaine. Antisepsis. Healing process normal. 16 days.	May 17, 1888. V. = 0.2
74	F. 57 Can. Poor.	5 years. Tremulous iris Normal.	May 2, 1888. Græfe. Ether. Antisepsis. Eye found to be very soft, and much fluid vitreous lost. Lens removed with the scoop. Patient had a very tardy convalescence, interrupted by frequent and severe attacks of pain. Was discharged at her own request, after 48 days' treatment, with eye improving.	June 12, 1888. V. not taken.
75	F. 82 Amer. Fair.	7 years. Normal.	May 5, 1888. Græfe. Cocaine. Antisepsis. Lens found to be cretaceous, and pupil cleared with forceps. At the end of 48 hours, suppuration of cornea began occupying upper third of cornea. This process, however, did not extend. Patient removed against advice. 19 days. Capsule operation in future.	May 24, 1888. V. not taken.

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
76	M. 65 Irish. Good.	1½ years. Normal.	May 9, 1888. Græfe. Cocaine. Antisepsis. A small bead of vitreous removed with scissors. Healing process retarded. 26 days.	June 5, 1888. V. = 0.4
77	M. 52 Amer. Poor.	2 years. Normal.	May 11, 1888. Græfe. Cocaine. Antisepsis. Healing process and operation normal. 17 days.	Sept. 14, 1888. V. = 0.7
78	M. 75 Irish. Poor.	1 month? Normal.	May 23, 1888. Græfe Cocaine. Antisepsis. Ten days after operation patient counted fingers at one meter. After this he became partially demented, and in wandering about the hospital developed a purulent discharge, followed by sloughing of the cornea. 21 days.	June 13, 1888. V. = 0.
79	F. 50 Irish. Poor.	1 year. Normal.	May 25, 1888. Græfe. Cocaine. Antisepsis. Lens removed with scoop, a small amount of vitreous lost. Operation followed by a severe iritis with a large amount of exudation, which finally resulted in a blocked pupil. 38 days. June 24. Capsule operation.	June 28, 1888. V. = 0.3
80	M. 60 Amer. Good.	2 years. Normal.	May 25, 1888. Græfe. Cocaine. Antisepsis. Convalescence normal. 15 days.	June 9, 1888. V. = 0.3
81	F. 32 Amer. Fair.	Uncertain. Immature. Leucoma. Normal.	May 26, 1888. Græfe. Cocaine. Antisepsis. Anterior capsule very tough, and was removed in bulk. Normal. 9 days.	June 4, 1888. V. = Fingers at ½ m.
82	F. 40 Amer. Good.	Normal.	May 28, 1888. Græfe. Cocaine. Antisepsis. Normal recovery. 7 days.	June 4. 1888. V. = 0.1
83	F. 70 Irish. Good.	Normal.	Græfe. Cocaine. Antisepsis. Vitreous fluid and lens removed with scoop. The other eye lost from glaucoma. Normal recovery. 14 days	June 13, 1888. V. = 0.1
84	M. 77 Amer. Good.	Mature. Normal.	July 5, 1888. Græfe. Cocaine. Considerable hemorrhage. Blood remained in anterior chamber for a number of days after operation. July. Capsule operation. 18 days.	July 9, 1888. V. = 0.2

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
85	F. 76 N. B. Good.	7 years. Normal.	June 6, 1888. Græfe. Cocaine. Antiseptic precautions. Operation was followed by œdema of lids and conjunctival discharge. 36 days.	July 13, 1888. V. = 0.2
86	M. 72 Amer. Good.	1 year. Normal.	June 7, 1888. Græfe. Cocaine. Antisepsis. Healing process wholly normal. 13 days.	June 21, 1888. V. = 0.2
87	F. 66 Amer. Good.	8 years. Normal.	June 11, 1888. Græfe. Cocaine. Recovery retarded by a mild attack of iritis. 30 days.	Aug. 1, 1888. V. = 0.4
88	F. 62 Amer. Poor.	3 years. Normal.	June 14, 1888. Græfe. Cocaine. Normal operation and recovery. 16 days.	July 16, 1888. V. = 0.6
89	F. 65 Irish. Good.	2 years. Normal.	June 20, 1888. Græfe. Cocaine. Antisepsis. Normal. 20 days.	July 10. 1888. V. = 0.3
90	M. 64 Amer. Good.	1½ years. Normal.	June 21, 1888. Græfe. Cocaine. Antiseptic precautions. 19 days.	July 17, 1888. V. = 0.4
91	F. 58 Amer. Poor.	2 years. Normal.	June 25, 1888. Græfe. Cocaine. Normal convalescence. 12 days.	Sept. 5, 1888. V. = 0.3
92	M. 63 Amer. Good.	Hypermature. Normal.	June 29, 1888. Græfe. Cocaine. Operation and recovery normal. 19 days	July 18, 1888. V. = 0.3
93	M. 45 Russian. Good.	1½ years. Normal.	July 7, 1888. Græfe. Cocaine. Anterior chamber very shallow; iris wounded in making primary incision. 14 days.	Aug. 2, 1888. V. = 0.8
94	M. 37 Amer. Good	1 year. Normal.	July 17, 1888. Græfe Cocaine. Operation and recovery without incident. 14 days.	Aug. 1, 1888. V. = 0.3

No.	Sex. Age. Nation. Health	Approximate Duration of Cataract Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
95	M. 66 Amer. Good.	1 year Normal.	Aug. 1, 1888. Græfe. Cocaine. Antisepsis. Recovery hindered by cortical in pupil. 29 days.	Sept. 4, 1888. V. = 0.3
96	M. 78 Amer. Fair.	5 years. Normal.	Aug. 1, 1888. Græfe. Cocaine. Normal. 15 days. Secondary operation, Aug. 15.	Aug. 27, 1888. V. = 0.2
97	M. 74 Amer. Poor.	3 years. Normal.	Aug. 10, 1888. Græfe. Ether. Patient very unruly, and operation finished under ether. A mild suppurative iritis developed shortly after operation, and was absorbing rapidly at date of discharge, which was requested by patient's relatives. 21 days.	Aug. 31, 1888. V. = Perception of light.

STATISTICS OF CATARACT EXTRACTIONS, WITHOUT IRIDECTOMY, FOR THE YEAR ENDING AUG. 31, 1888.

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	F. 60 Irish. Good.	2 years. Normal. Corneal opacities.	Nov. 9, 1887. Modified flap. Cocaine. Antisepsis Some cortical could not be dislodged. Iris well back in place. Considerable pain during recovery. 12 days.	Nov. 21, 1887. V. = 0.1
2	M. 47 Amer. Good.	6 years. Normal.	Jan. 5, 1888. Modified flap. Cocaine. Lens removed without prolapse of iris. Considerable soft cortical. Normal. 19 days.	Feb. 8, 1888. V. = 1.
3	F. 64 Amer. Good.	2 years. Normal.	Feb. 15, 1888. Modified flap. Cocaine. Iris retracted over lens without prolapsing. 37 days. Wound a long time in healing.	June 16, 1888. V. = 0.2
4	M. 57 Irish. Good.	2 years. Normal.	June 7, 1888. Modified flap. Cocaine. Antisepsis. A small prolapse of iris occurred upon the second day. 21 days.	July 21, 1868. V. = 1.

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Remarks. Duration of Treatment.	Vision.
5	M. 58 Eng. Good.	6 months. Normal.	June 8, 1888. Modified flap. Cocaine. Antisepsis. Large prolapse of iris occurred upon the second day, for which iridectomy was done. Anterior chamber re-established soon afterwards. 20 days. June 22, capsule operation.	June 28, 1888. V. = 0.3
6	F. 75 Amer. Good.	8 years. Normal.	June 13, 1888. Modified flap. Cocaine. Antiseptic precautions. Normal recovery, with a perfectly round and movable pupil. 16 days.	June 29, 1888. V. = 0.4
7	F. 53 Can. Good.	1 year. Normal.	June 13, 1888. Modified flap. Cocaine. Antisepsis. Normal. Pupil circular and central. 21 days.	Aug. 20, 1888. V. = 0.7
8	F. 58 German. Good.	6 years. Normal.	June 15, 1888. Modified flap. Cocaine. Antisepsis. Large prolapse, and anterior chamber not established upon the second day. Iridectomy under cocaine. 25 days.	July 10, 1888. V. = 0 7
9	M. 61 Amer. Good.	5 years. Normal.	June 20, 1888. Modified flap. Cocaine. Antisepsis. Normal recovery. Pupil round and central. 23 days.	July 13, 1888. V. = 0.5
10	F. 55 N. B. Good	1 year. Normal.	June 20, 1888. Modified flap. Cocaine. Antisepsis. Normal convalescence. Pupil drawn slightly upwards. 21 days.	July 17, 1888. V. = 0.4
11	M. 31 Scotch. Good.	Traumatic. Normal.	July 8, 1888. Modified flap. Cocaine. Normal. 8 days.	Aug. 8, 1888. V. = 1.66
12	M. 70 Amer. Good.	2 years. Normal. Post. Synechia.	June 30, 1888. Modified flap. Cocaine. Antisepsis. Normal convalescence 20 days.	July 19, 1888. V. = 0.3
13	F. 70 Irish. Poor.	5 years. Normal.	Aug. 5, 1888. Modified flap. Cocaine. Mild iritis the seventh day. 21 days.	Aug. 29. 1888. V. = 0.33

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
14	F. 70 Amer. Good.	1 year. Normal.	Aug. 9, 1888. Modified flap. Cocaine. Antisepsis. Moderate iritis, accompanied by many adhesions between iris and capsule. Secondary operation done Aug. 22. 21 days	Aug. 28, 1888. V. = 0.4
15	F. 79 Amer. Good.	1 year. Normal.	Aug. 18, 1888. Modified flap. Cocaine Antisepsis. Patient injured the eye during recovery. Secondary operation Sept. 27. 13 days.	Sept. 3, 1888. V. = 0.1
16	F. 82 Amer. Fair.	3 years. Normal.	Aug. 23, 1888. Modified flap. Cocaine. Normal. 14 days.	Sept. 6, 1888. V. = 0.2
17	M. 70 Amer. Good.	1 year. Normal.	Aug. 23, 1888. Modified flap. Cocaine. Iris prolapsed the second day. 27 days.	Sept. 19, 1888. V. = 0.2

STATISTICS OF CATARACT EXTRACTIONS BY SUCTION, FOR THE YEAR ENDING AUG. 31. 1888.

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Remarks. Duration of Treatment.	Vision.
1	M. 50 Amer. Good.	Traumatic. 9 days. Normal.	Sept. 21, 1887. Suction. Cocaine. Some fragments of lens left in pupil. 9 days.	Oct. 17, 1887. V. = 0.4
2	M. 6 Amer. Good.	Congenital. 6 years. Normal.	Oct. 1, 1887. Suction. Ether. Normal. 6 days.	Oct. 17, 1887. V. = 0.2
3	M. 21 Irish. Good.	Traumatic. 14 days. Good.	Nov. 20, 1887. Suction. Cocaine Much lens substance removed. Foreign body left in pupil, which was subsequently removed, proving to be a fragment of delf. 16 days	Feb. 18, 1888. V. = 0.6
4	M. 16 Aust'lu. Good.	Congenital. 16 years. Normal.	Jan. 12, 1888. Suction. Normal. Cocaine. The lens had previously been broken up with capsule needle. 9 days.	Jan. 21, 1888. V. = 1.

No.	Sex. Age. Nation. Health.	Approximate Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Remarks. Duration of Treatment.	Vision.
5	M. 12 Amer. Good.	Traumatic. 2½ months. Iris discolor'd.	Jan. 20, 1888. Suction. Cocaine. 14 days.	
6	M. 20 German. Good.	Tramautic. Dislocated. 1 month.	March 27, 1888. Suction. Cocaine. 5 days.	
7	M. 14 C. B. Good.	Traumatic. 7 months.	April 26, 1888. Suction. Cocaine. Normal. 7 days.	May 3, 1888. V. = 1.25
8	M. 20 Eng. Good.	Traumatic. Soft. Good.	July 13, 1888. Suction. Cocaine. Normal. 18 days.	July 30. 1888. V. = .7
9	M. 5 Amer. Good.	Traumatic.	July 30, 1888. Suction. Ether. 7 days.	
10	M. 16 Amer. Good.	Traumatic. Iris prolapsed into wound.	Aug. 1, 1888. Suction. Cocaine. Lens previously broken up with needle. 16 days.	Aug. 10, 1888. V. = Fingers at 1. m.
11	M. 20 Amer. Good.	Traumatic. 4 months.	Aug. 15, 1888. Suction. Cocaine. 2 days.	
12	M. 21 Irish. Good.	Traumatic.	Aug. 16, 1888. Suction. Cocaine. 2 days.	Aug. 18, 1888. V. = Motion of hand.

SIXTY-FOURTH

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY,

FOR THE YEAR

1889.

BOSTON:
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24 Franklin Street.

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OF THE

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REPORT OF THE MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1889.

In presenting this, the sixty-fourth annual report of the Massachusetts Charitable Eye and Ear Infirmary, the Managers desire to call attention to the remarkable increase of patients during the past year. From 13,140 in 1888 the number has risen in 1889 to 14,981, an addition of 1,841, or more than fourteen per cent.

Such an increase is, of course, gratifying as an evidence of the value of the institution, and the confidence felt in the treatment it affords, but it is calculated to excite no little anxiety in view of the coming strain upon its resources.

Growth is the natural condition of every healthy institution doing good service to the community, and should be welcomed, even at the risk of some temporary embarrassment. But it is not easy to provide for such growth as the Infirmary is now making. A few years only have passed since the large L was built, with accommodation, it was thought, ample for many years to come; yet the pressure is already severe, and before long more room must be had.

This will entail a large expenditure. To meet it the Managers can only look to the assistance of the public, which never fails to provide the means where a really valuable work is carried on.

In anticipation of this necessity a gift of ten thousand dollars, received this year from Miss Helen C. Bradlee, has been placed to the credit of the "New Building Fund," as a nucleus to be added to from time to time as money may be given for the purpose.

There is another direction in which the increase of patients bears heavily, and this is upon the time and endurance of the surgeons. These gentlemen, who are selected because they can bring to the aid of the patients the very highest skill in their professions, receive no remuneration, but give their services gratuitously. What this means in the case of a class of specialists, men of ripe experience and high reputation, whose time could all be employed in very lucrative private practice, the public, perhaps, does not fully appreciate. Did it do so, the Managers feel confident that their work would not be suffered to lack every possible encouragement which ample accommodations and the fullest means in the exercise of their skill could afford.

It has not been the habit to ask for annual subscriptions for the running of the Infirmary. Thanks to the generosity of the State, which benefits largely by its work, and to the benefactions of its friends in the past, the yearly expenses have been readily met. But to provide for a new building at no distant day will require large additions to the funds of the Infirmary, and it is hoped that the statement here made may, by calling attention to the subject, secure for it the necessary means.

In the report of the surgeons, which follows, will be found a record of operations and statistics of disease of great interest to the professional student, while the general reader cannot fail to be impressed by it with the extraordinary amount of work accomplished.

AUGUSTUS LOWELL.
J. COLLINS WARREN.

REPORT OF THE SURGEONS.

To the Managers of the Massachusetts Charitable Eye and Ear Infirmary.

For the Year ending Oct. 1, 1889.

Gentlemen, — The Surgeons of the Infirmary beg leave to present their report for the year ending Oct. 1, 1889. As has been the case for many years, there has been a great increase in the number of patients applying for relief. The largest noted in any previous year was in 1885, when there was a gain of 1,252. This year, however, there has been an increase of 1,841 in the number of new patients, making the total 14,981, as compared with 13,140 last year. This increase is significant.

The number of important operations performed exceeds that of any previous year. This is especially true of cataract operations, of which last year there were 126; this year, 147. In the report is the usual tabulated statement of the diseases and operations, with cataract extractions in detail.

The library, begun during the year, has given great satisfaction, and has proved a valuable addition. Though at present it is small, yet it contains quite a number of standard treatises, old and new. In addition to these, the various special journals give the most recent literature, so that the amount altogether is considerable.

The staff desire to acknowledge the efficient services of

the Assistant Surgeons, Externes, and Internes, and the care and watchfulness of the Superintendent and Matron, whose efforts have largely contributed to a successful year.

HENRY L. SHAW, M. D.,
E. D. SPEAR, M. D.,
For the Board of Surgeons.

STATISTICS.

Oct. 1, 1888, to Oct. 1, 1889.

CLASSIFICATION OF PATIENTS, DISEASES, AND OPERATIONS.

House Patients.

Eye Patients:			
Males	431		
Females	273		
		——	704
Ear Patients:			
Males	36		
Females	37		
		——	73
			——
Total House Patients			777

Out-Patients.

Eye Patients:			
Males	5,225		
Females	5,000		
		——	10,225
Ear Patients:			
Males	2,024		
Females	1,955		
		——	3,979
			——
Total Out-Patients			14,204
Total number of patients treated during the year,			14,981

Eye Patients.

Residents of Boston	5,589
" other parts of Massachusetts	4,295
" Maine	100
" New Hampshire	85
" Vermont	35
" Rhode Island	22
" Connecticut	20
" other States	33
" British Provinces	44
" England	1
" Wales	1
Total	10,225

Occupation of Eye Patients.

Agents	44
Barbers	37
Blacksmiths	80
Carpenters	207
Children	2,501
Clergymen	11
Clerks	358
Dentists	6
Domestics	917
Engineers	35
Farmers	104
Firemen	24
Fishermen	16
Hatters	9
Home	1,172
Laborers	710
Leather workers	51
Masons	67

Mariners	88
Mechanics	466
Messengers	47
Metal workers	293
Milliners	13
Mill operatives	429
Musicians	15
Nurses	53
Painters	80
Photographers	6
Policemen	10
Printers	83
Provision dealers	18
Railroad	55
Rubber workers	32
Saloon keepers	14
Sewing	417
Shoemakers	182
Soldiers	10
Students	59
Stone cutters	213
Tailors	97
Teachers	54
Teamsters	183
Traders	39
Tradesmen	47
Waiters	63
Widows	185
Wood workers	184
From the workhouse	11
From other hospitals	4
Other occupations	412
Unrecorded	14
Total	10,225

Diseases of the Eye.

Lids.

Abscess	26
Blepharadenitis	409
Blepharitis	47
Burn	9
Chalazion	242
Cuts	15
Cyst	23
Ecchymosis	9
Ectropion	20
Entropion	12
Epicanthus	3
Eczema	26
Epithelioma	14
Foreign body	62
Herpes	2
Hordeolum	59
Lagophthalmus	1
Lippitudo	1
Nævus	2
Œdema	47
Ptosis	18
Pediculus	4
Symblepharon	11
Tear of lid	4
Traumatic cicatrix	3
Trichiasis	54
Tumor	15
Verruca	9
Total	1,148

Lachrymal Apparatus.

Abscess	55
Catarrh lachrymal sac	46
Epiphora and obstruction of lachrymal ducts	228
Eversion of punctum	2
Lachrymal fistula	1
Mucocele	27
Traumatic epiphora	1
Total	361

Conjunctiva.

Burns	33
Chemosis	9
Conjunctivitis, catarrhal	2,134
" diphtheritic	4
" purulent	41
" neonatorum	42
" granular	177
" " with pannus	55
" phlyctenular	268
" traumatic	55
" strumous	25
Cut of	6
Cyst	3
Ecchymosis	78
Foreign body	36
Hyperæmia	33
Hypertrophy	1
Œdema of	4
Pinguecula	11
Pterygium	68
Tumor	5
Total	3,088

Cornea and Sclera.

Abrasion	40
Abscess	7
Anterior staphyloma	22
Burn	18
Foreign body	909
Foreign body, anterior chamber	11
Inflamed leucoma	53
Keratitis, simplex	210
" phlyctenular	316
" interstitial	39
" traumatic	16
" fascicular	9
Keratoconus	3
Kerato-iritis	11
Lead deposit of cornea	3
Leucoma	310
Rupture of cornea	7
Tumor	2
Ulcer	500
" vascular	53
" traumatic	51
Ulcer serpens	6
Wound of cornea	64
Episcleritis	34
Foreign body on sclera	7
Rupture of sclera	7
Scleritis	18
Sclero-keratitis	12
Staphyloma of sclera	7
Wound of sclera	14
Wound of ciliary region	13
Total	2,782

Iris and Ciliary Body.

Ciliary injection	17
Coloboma iris	5
Hæmorrhage into anterior chamber	28
Hypopyon	36
Irido-dialysis	9
Iridodonesis	22
Iridoplegia, traumatic	4
Iritis	224
" syphilitic	19
" traumatic	15
Mydriasis	51
Occluded pupil	17
Prolapse of iris	27
Synechia, anterior	42
" posterior	40
Wound of ciliary body	14
Total	570

Choroid.

Atrophy	9
Choroiditis	36
Irido-choroiditis, sympathetic	5
" "	19
Retino-choroiditis	3
Rupture of choroid	1
Sclerotico-choroiditis, posterior	13
Staphyloma, posterior	21
Glaucoma	38
Total	145

Lens.

Dislocation of	30
Cataract, mature	101
" anterior pyramidal	1
" capsular	13
" cortical	1
" congenital	14
" cretaceous	10
" incipient	189
" lamellar	3
" posterior polar	5
" traumatic	65
Lenticular opacity	40
Total	472

Vitreous.

Cholesterine in	1
Fibrous exudation	1
Foreign body	3
Hæmorrhage into	11
Hyalitis	6
Muscæ volitantes	18
Opacities	46
Total	86

Retina.

Embolism of central artery	1
Hæmorrhage into macula	1
Neuro-retinitis	12
Pigmented deposit	2
Retinitis	10
" albumenurica	4

Retinitis apoplectica	10
" pigmentosa	5
Separation of	23
Total	68

Optic Nerve.

Atrophy	47
Neuritis	26
Total	73

Eyeball and Orbit.

Disorganized globe	21
Exophthalmus	6
Foreign body	9
Inflamed stump	1
Irritable orbit	1
Phthisis bulbi	29
Rupture of globe	1
Tumor of orbit	1
" " globe	3
Total	72

Refraction and Accommodation.

Asthenopia	33
Astigmatism	335
Hypermetropia	1,264
Myopia	330
Paralysis of accommodation	7
Presbyopia	451
Spasm of accommodation	16
Total	2,436

Muscular Affections and Neuroses.

Blepharospasmus	15
Ciliary neuralgia	5
Diplopia	25
Insufficiency of internal recti	9
Nictitation	5
Nystagmus	22
Paralysis of facial	8
" " third pair	16
" " sixth pair	11
Strabismus convergens	203
" divergens	60
Supra orbital neuralgia	16
Total	395

Affections of the Percipient Apparatus.

Amblyopia	24
" ex abusu	33
Hemeralopia	3
Hemiopia	1
Scotoma	8
Total	69

General Injuries.

Blows and cuts	133
Burns	13
Total	146

Miscellaneous.

Eloped	37
No disease	17
Referred to other institutions	35

Referred to ear department	15
Unfit	526
Unrecorded	106
Total	736

Summary of Eye Diseases.

Eyelids	1,148
Lachrymal apparatus	361
Conjunctiva	3,088
Cornea and sclera	2,782
Iris and ciliary body	570
Choroid	145
Vitreous	86
Lens	472
Retina	68
Optic nerve	73
Lesions of eyeball and orbit	72
Refraction and accommodation	2,436
Muscular affections and neuroses	395
Affections of the percipient apparatus	69
General injuries	146
Miscellaneous	736
Total	12,647

Operations on the Eye.

Lids.

Chalazion	76
Cut of lid, sutured	1
Ectropion	2
Entropion	5
Excision of cyst	3

Excision of epithelioma	2
" " new growth	12
Green's operation for trichiasis	7
Other operations " "	8
Incision of abscess	2
Plastic operation epithelioma	2
" " ectropion	4
Ptosis	5
Symblepharon	4
Total	133

Conjunctiva.

Desmarre's operation for pterygium	24
Peritomy	3
Total	27

Cornea.

Paracentesis hypopyon	11
" ulcer	2
" irido-choroiditis	1
Removal of foreign bodies	921
" " growth	1
Sæmisch's operation for ulcer serpens	4
Transplantation of cornea	2
Total	942

Iris.

Division of anterior synechia	5
Iridectomy for artificial pupil	24
" " foreign body	1
" preparatory to cataract extraction	5
" for glaucoma	9

Iridectomy for irido-choroiditis	1
" " occluded pupil	3
" " prolapsed iris	16
Iridotomy	2
Total	66

Lens.

Discission of cataract	6
" " " congenital	6
" " " traumatic	1
Extraction of cataract senile (Græfe)	96
" " " "	1
" " " " simple	15
" " " " with excision of circular bit of iris	11
Extraction of cataract senile (Wecker)	7
" " " suction	12
" " " other operations	5
Extraction of cretaceous lens in anterior chamber	2
Capsule operations	49
" " crochet needle and hook	18
Total	229

Enucleation.

For disorganized globe	44
" epithelioma of cornea	1
" foreign body in globe	6
" glaucoma	2
" melano-sarcoma of globe	3
" rupture of globe	4
" sympathetic ophthalmia	2
Total	62

Muscles.

Strabismus convergens	83
" divergens	6
Advancement of internal rectus	6
" " external "	3
" " Tenons capsule	3
Section of superior rectus	1
Advancement of inferior rectus	1
	103

Other Operations.

Bowman's on tear passage	3
Opening lachrymal abscess	2
Miscellaneous	7
Removal anterior portion of eyeball	5
Total	17

Ages of Ear Patients.

	Males.	Females.
Birth to 3 years	83	71
3 to 15 years	381	369
15 " 25 "	375	400
25 " 35 "	434	489
35 " 45 "	271	236
45 " 55 "	210	198
55 " 65 "	143	121
65 " 75 "	104	66
75 " 85 "	22	5
85 " 90 "	1	
Totals	2,024	1,955

Ear Patients.

Residents of Boston	2,152
" " Massachusetts	1,735
" " Maine	27
" " New Hampshire	23
" " Vermont	3
" " Rhode Island	4
" " Connecticut	7
" " other States, Provinces	28
Total	3,979
Males	2,024
Females	1,955
Total	3,979

STATISTICAL REPORT OF THE DISEASES OF THE EAR.

Oct. 1, 1888, to Oct. 1, 1889.

Diseases of the External Ear.

Auricle.

	R.	L.
Dermatitis traumatica	1	
" erysipelatosa	1	
Eczema papulosum	4	5
" vesiculosum	1	
" pustulosum	1	
" rubrum		1
" squamosum	27	25
Herpes zoster	2	8
Lupus hypertrophica		1
Abscessus		2
Fissura lobuli		1
Hæmatoma idiopathica	1	

Malformations.

Polyotia		1

New Growths.

Fibroma	3	2

Meatus.

	R.	L.
Accumulatio ceruminis	463	439

Inflammations.

Abscessus	4	8
Otitis externa follicularis vel circumscripta .	26	30
Otitis externa acuta	30	38
" " chronica	4	3
" " erysipelatosa		1
" " desquamativa	6	5
Eczema papulosum	3	2
" vesiculosum	1	1
" pustulosum		1
" rubrum	2	
" squamosum	18	21
Pruritus	2	2
Verruca	1	

Foreign Bodies.

Animalis	2	1
Inanimalis	9	7

Malformations.

Atresia congenita	1	3
Exostosis circumscripta	3	2
Hyperostosis circumscripta	2	1
Trauma directa	1	1
" indirecta		1

Diseases of the Middle Ear.

Membrana Tympani.

	R.	L.
Trauma directa, ecchymosis		2
" " perforatio		1
" " ruptura	1	4
" indirecta, ex ictu aërio	1	

Tympanum, Eustachian Tube, and Mastoid.

Otitis catarrhalis mucosa acuta	50	48
" " " chronica	180	161
" " serosa acuta	90	60
" " " chronica	7	11
" " " ex tuba	2	2
" " adhæsiva	7	10
" " " ex secernente	22	25
" " " interstitialis	27	18
" " " cum morbo labyrinthi	11	8
" " " sine morbo labyrinthi	8	9
" " secernens	10	8
Presbykousis	2	2
Otitis media acuta simplex	136	108
" " " cum perforatione	35	40
" " " " bulla	6	4
" " suppurativa, acuta	3	2
" " " chronica	226	206
Otitis media suppurativa chronica cum perforatione membranæ flaccidæ	46	39
Otitis media suppurativa chronica cum carie meatus	2	1
Otitis media suppurativa chronica cum carie mastoidea	3	5
Otitis media suppurativa chronica cum granulatione meatus	40	31

	R.	L.
Otitis media suppurativa chronica cum granulatione membranæ tympani . . .	7	5
Otitis media suppurativa chronica cum granulatione tympani	6	4
Otitis media suppurativa chronica cum exostose meatus	2	1
Otitis media suppurativa chronica cum polypo tympani	28	22
Effectus otitis media acuta	26	27
Effectus otitis media suppurativa cum perforatione	42	28
Effectus otitis media suppurativa cum perforatione conglutinata	23	21

Neuroses of the Middle Ear.

Sensory.

Otalgia neuralgica	6	7
" dentalis	4	5
" hysterica	1	
" ex marasmu		1

Motor.

Contractiones musculorum tympani . .		1

Diseases of the Labyrinth, Acusticus and Course of Acusticus.

Anæmia	1	2
Concussio labyrinthi	1	1
" ex vi opposita	1	1
" ex ictu aërio	2	1
Labyrinthitis chronica	1	1
Cochlitis	2	2
Morbus acustici	1	
Hyperæsthesia	1	1

Occupations of Ear Patients.

Actors	4
Agents	21
Auctioneers	2
Bartenders	14
Bakers	33
Barbers	26
Blacksmiths	58
Book-keepers	32
Bookbinders	26
Butchers	5
Bricklayers	9
Brickmakers	2
Boilermakers	14
Boxmakers	4
Brushmakers	4
Carpenters	144
Cabinetmakers	27
Canvassers	10
Cigarmakers	23
Cooks	10
Clergymen	9
Clerks	126
Conductors	9
Charwomen	58
Confectioners	14
Coopers	16
Coachmen	14
Collectors	3
Dealers	59
Drivers	43
Dressmakers	76
Druggists	4

Dentists	5
Domestics	238
Dyers	4
Engineers	25
Engravers	4
Errand boys	8
Electric work	2
Farm hands	16
Farmers	61
Firemen	17
Fishermen	15
Foremen	2
Foundrymen	4
Gardeners	19
Gilders	4
Harnessmakers	8
Hatters	7
Home	191
Housekeepers	42
Hostlers	35
Hotelkeepers	2
Janitors	8
Jewellers	14
Laborers	505
Launderers	13
Letter carriers	7
Leather workers	17
Machine operators	29
Manufacturers	6
Masons	38
Mechanics	116
Messengers	2
Metal workers	97
Millers	2

Milliners	13
Mill hands	125
Musicians	6
Nurses	23
Painters	70
Photographers	6
Paper hangers	2
Pedlers	31
Pensioners	2
Physicians	3
Pianomakers	9
Plasterers	4
Plumbers	12
Policemen	7
Porters	13
Printers	32
Proof-readers	2
Quarrymen	11
Railroad men	60
Restaurateurs	3
Roofers	10
Rubber workers	30
Sales men and women	100
School	19
Seamen	32
Seamstresses	61
Shoemakers	115
Steam-fitters	2
Stenographers	5
Students	19
Stone workers	48
Tailors	109
Teamsters	103
Teachers	31

Telegraphers	9
Upholsterers	8
Waiters	42
Watchmen	17
Watchmakers	6
Wood workers	24
Children and others	393
Total	3,979

Operations performed in Ear Department.

Abscess of auricle, opened, 1.
Abscess of lobe opened, right, 2; left, 3.
Abscess of meatus opened, right, 11; left, 11; both, 2.
Abscess of neck opened, 1.
Abscess behind auricle, opened, right, 14; left, 10.
Atresia of canal incised, right, 1.
Bulla of membrana tympani incised, right, 2; left, 1; both, 1.
Cerumen and epidermis, ether, 1.
Cyst of auricle removed, left, 1.
Cyst of lobe removed, right, 2.
Fibrous tumor from lobe, right, 3.
Hæmatoma of auricle incised, 1.
Hyperplasia of pharyngeal tonsil (adenoids) removed, 51.
Lobe of auricle, foreign body from, 2.
Mastoid opened, right, 3; left, 1.
Meatus, foreign bodies from, 8.
Paracentesis for mucus in tympanum, right, 2; left, 1.
Paracentesis for serum in tympanum, right, 47; left, 53; both, 6.
Polypus from tympanum and meatus, right, 35; left, 36; both, 6.
Polypus from nose, 5.
Polyotia, 1.
Tonsils removed, right, 2; left, 1; both, 6.
Total, 348.

STATISTICS OF DISEASES OF HOUSE PATIENTS.

Oct. 1, 1888, to Oct. 1, 1889.

Eye Patients.

Abscess of cornea	5
Atrophy of optic nerve	2
Blepharadenitis	5
Burn of cornea	9
Caries and lachrymal abscess	1
Cataract	150
" traumatic	22
" capsular	24
" congenital	7
Choroiditis	4
Conjunctivitis, catarrhal	14
" granular	27
" " with pannus	22
" phlyctenular	3
" purulent	32
Dacrocystitis	1
Dislocation of lens	4
Disorganized globe	15
Epithelioma of cornea	2
" " lid	3
Ectropion	6
Episcleritis	1
Entropion	12
Foreign body in cornea	1
" " " anterior chamber	5
Glaucoma	14
Hæmorrhage into orbit	1

Injury to globe	20
Intra-ocular tumor	3
Irido-choroiditis	6
Iridodonesis	1
Iridodyalisis	1
Iritis, acute	28
" chronic	4
" syphilitic	2
Keratitis	31
" phlyctenular	9
" interstitial	6
" vascular	2
Leucoma	33
Neuritis	2
Nystagmus	3
Panophthalmitis	6
Phthisis bulbi	16
Ptosis congenital	7
Rupture of cornea	1
Scleritis	4
Sclero-keratitis	4
Sclerotico-choroiditis posterior	2
Separation of retina	3
Staphyloma anterior	15
Strabismus convergens	11
" divergens	7
Symblepharon	4
Sympathetic irritation	6
" ophthalmia	1
Synechia anterior	9
" posterior	11
Trichiasis	9
Ulcer of cornea	46
" " " hypopyon	9

Ulcer of cornea, prolapse of iris	10
" " " traumatic	9
" " " " with hypopyon	14
" " " serpens	4
Vitreous, hæmorrhage into	1
Wound in ciliary region	5
Wound of cornea	19
Miscellaneous	19
Total	795

HOUSE CASES.

From Oct. 1, 1888, to Oct. 1, 1889.

Ear Patients.

Herpes zoster auricularis	1
Abscesses, meatus	1
Angioma, post aurem	1
Otitis catarrhalis	1
" " mucosa acuta	6
Trauma directa membrana tympani	1
Otitis catarrhalis mucosa chronica	2
Effectus otitis media suppurativa	1
Otitis media suppurativa with mastoiditis	7
" " " " polypus	6
" " " " post aural abscess	11
Labyrinthitis syphilitica	1
Paralysis hysterica nervi acustici	1
Otitis media suppurativa acuta	13
" " " chronica	12
Total	65

REPORT OF ONE HUNDRED AND FORTY-SEVEN OPERATIONS

FOR THE

Extraction of Cataract,

DONE AT THE MASSACHUSETTS CHARITABLE EYE AND EAR INFIRMARY BY THE OPHTHALMIC SURGEONS DURING THE YEAR ENDING AUG. 31, 1889.

COMPILED BY HENRY L. SHAW, M. D.

One hundred and forty-seven operations for cataract have been performed during the past year. Of this number there were by the

Method of Græfe	97
Simple extractions	23
Simple extractions with excision of a circular piece of iris	11
Suction	12
Linear	3
Method of Le Brun	1

Of the 97 operations by the Græfe method, 96 were for senile cataract and 1 for soft cataract. Cocaine was used in all these cases, and in one, that of a nervous patient, ether was given to complete the operation. Antisepsis was used in 54 of the cases. The scoop was used in one, case number 23. Vitreous was lost in the two cases Nos. 10 and 44. There were 28 secondary operations. The resulting vision in the cases of senile cataract extracted by this method was :—

Vision = 0.833 +	1	Vision = 0.166 +	1
" = 0.8	6	" = 0.15	1
" = 0.7	2	" = 0.1	15
" = 0.6	2	" = 0.06	1
" = 0.5	13	" = 0.02	2
" = 0.4	11	" = motion of hand @ 1 meter	1
" = 0.333 +	2	" = quantitative light	4
" = 0.3	9	" = not stated	2
" = 0.25	2	" = failures	3
" = 0.2	18		

In case No. 4, discharged with quantitative perception of light, there were, before operation, extensive iritic adhesions and failure of projection, — an unfavorable case for operation. In another of these cases there is a probability that a secondary operation will improve vision. Case No. 44 left the house against advice, and can without doubt be improved by a secondary operation. Of the three cases of failure: in No. 33, the lens sank before the capsule was divided, which necessitated the use of the scoop. Panophthalmitis ensued. In case No. 82, there was an unusually smooth operation, the patient counted fingers immediately after its completion. Panophthalmitis came on the second day. The other eye had been operated on successfully six months before.

The vision in the cases of simple extraction was as follows: —

Vision = 0.7	1	Vision = 0.2	6
" = 0.6	1	" = 0.166 +	3
" = 0.5	3	" = 0.1	2
" = 0.4	4	" = motion of hand	1
" = 0.333 +	1		

Antisepsis was used in twelve of these cases. Vitreous was lost in one case. There was prolapse of the iris during the healing in four cases. The patient, discharged with v. = motion of hand, is to return for a secondary operation, with good prospects of vision being improved.

Several of the suction operations for traumatic cataract were for the relief of pain and tension, and no vision is recorded. Appended are statistical tables giving the vision and the details of the operations done by other methods than those above recorded.

STATISTICS OF CATARACT OPERATIONS PERFORMED AT THE MASSACHUSETTS CHARITABLE EYE AND EAR INFIRMARY, FROM SEPT. 1, 1888, TO SEPT. 1, 1889.

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
1	Female. 44 Irish. Fair.	Senile. Adhesions. Iritis. Normal.	Sept. 10, 1888. Græfe up. Cocaine. Antisepsis. Atropine. Eye opened fourth day. Considerable opaque capsule. Iritic adhesions. Sept. 23. Capsule operation. 19 days.	V. = 0.1
2	Male. 47 Irish. Fair.	Senile. Normal.	Sept. 12, 1888. Græfe up. Cocaine. Operation extremely difficult, owing to behavior of patient, but passed off without accident. Antisepsis. Atropine in bichloride. Iodoform on lids and iodoform gauze soaked with atropine in bichloride as dressing later. Oct. 22. Secondary operation.	
3	Female. 19 Amer. Fair.	Probably congenital. Iritic adhesions below normal.	Sept. 12, 1888. Græfe up. Cocaine. Antisepsis. Large hard nucleus, considerable cortical left. Sept. 19. Bandage removed. Pupil filled with dense capsule. Oct. 2, Oct. 12, and Nov. 6. Capsule operations. 69 days.	V. = fingers at ½ metre.
4	Male. 62 Irish. Good.	Senile. Iritic adhesions. Projection wanting inward.	Sept 14, 1888. Græfe up. Cocaine. Antisepsis. Capsule could not be incised with cystotome, removed with forceps. Vitreous presented. 25 days.	V. = quantitative.
5	Female. 53 Amer. Good.	Senile. Mature. 2 years. Normal.	Sept. 15, 1888. Græfe up. Cocaine. Antisepsis. Sept. 29 and Oct. 6. Secondary operations. 25 days.	V. = 0.6
6	Male. 52 Amer. Good.	Senile. Mature. Normal.	Sept. 16, 1888. Græfe up. Cocaine. Antisepsis. Atropine. Sept. 28. Secondary operation. 25 days.	V. = 0.4
7	Male. 52 Irish. Good.	Senile. [illegible] months. [illegible] rmal.	Sept. 22, 1888. Græfe up. Cocaine. Antisepsis. Oct. 6. Secondary operation. 23 days.	V. = 0.5

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
8	Female. 77 Amer. Poor.	Senile. 3 years. Normal.	Sept. 23, 1888. Græfe up. Cocaine. Antisepsis. Bandage removed eighth day.	V. = 0.4
9	Male. 52 Amer. Good.	Senile. Mature. 5 years. Normal.	Oct. 6, 1888. Græfe up. Cocaine. Antisepsis. Oct. 18. Capsule operation. 14 days.	V. = 0.6
10	Female. 74 B. P. Poor.	Senile. Mature. 3½ years. Normal.	Oct. 11, 1888. Græfe up. Cocaine. Antisepsis. In trying to remove a small tag of iris, posterior capsule was ruptured. Small loss of vitreous. Oct. 16. Eye opened. Considerable opaque capsule. Oct. 26. Secondary operation. 32 days.	V. = 0.1
11	Male. 68 B. P. Fair.	Senile. Mature. Normal.	Oct. 13, 1888. Græfe up. Cocaine. Antisepsis. Operation normal. Nov. 10. Secondary operation. 72 days.	V. = 0.4
12	Male. 64 Amer. Good.	Senile. Mature. 4 years. Normal.	Oct. 18, 1888. Græfe up. Cocaine. 23 days.	V. = 0.2
13	Female. 70 Amer. Good.	Senile. Mature. 5 years. Normal.	Oct. 23, 1888. Græfe up. Cocaine. Antisepsis. Patient restless and considerable cortical left. Atropine daily. On removing bandage considerable cortical in anterior chamber. Wound united well, and at discharge, cortical was absorbing well. 28 days.	V. = $\frac{5}{15}$
14	Male. 58 Amer. Good.	Senile. Mature. 2½ years. Normal.	Oct. 30, 1888. Græfe up. Cocaine. 15 days.	V. = 0.5
15	Male. 45 Amer. Good.	Senile. Mature. 1 year. Iris tremulous. Pigment absorbed. Normal.	Oct. 31, 1888. Græfe up. Cocaine. 17 days.	V. = 0.3
16	Female 64 Amer. Good.	Senile. Mature. 2 years.	Nov. 1, 1888. Græfe up. Cocaine. 28 days.	V. = 0.8

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
17	Female. 56 Irish. Good.	Senile. Mature. 1½ years. Normal.	Nov. 2, 1888. Græfe up. Cocaine. 23 days.	V. = 0.7
18	Male. 59 Irish. Good.	Senile. Mature. 2 years. Normal.	Nov. 3, 1888. Græfe up. Cocaine. Operation normal. Atropine in bichloride daily. Bandage removed seventh day. Chemosis of conjunctiva and cornea hazy. May 6, 1889. Secondary operation. 42 days.	V. = $\frac{5}{30}$
19	Female. 55 Irish. Poor.	Senile. Mature. 1 year. Projection wanting upward.	Nov. 14, 1888. Græfe up. Cocaine. Antisepsis. 19 days.	V. = 0.5
20	Male. 63 Irish. Good.	Senile. Mature. 6 months. Normal.	Nov. 14, 1888. Græfe up. Cocaine. Antisepsis. Lens sticky and removed with difficulty. Eye opened sixth day, some cortical in pupil. 14 days.	V. = 0 8
21	Male. 74 Amer. Fair.	Senile. Mature. 9 years. Normal.	Nov. 17, 1888. Græfe up. Cocaine. Antisepsis. 19 days.	V. = 0.5
22	Female. 55 N. S. Good.	Senile. Mature. 6 years. Normal.	Nov. 19, 1888. Græfe up. Cocaine. May 7, 1889. Secondary operation. 19 days.	V. = quantitative perception of light
23	Female. 74 Amer. Good.	Senile. Mature. 3 years. Normal.	Nov. 21, 1888. Græfe up. Cocaine. Antisepsis. Dec. 11. Secondary operation. 28 days.	V. = 0.4
24	Female. 70 Irish. Good.	Senile. Mature. 1 year. Normal.	Nov. 21, 1888. Græfe up. Cocaine. Antisepsis. Dec. 6. Secondary operation.	V. = $\frac{3}{20}$
25	Female. 60 Irish. Good.	Senile. Mature. 2 years. Normal.	Nov. 21, 1888. Græfe up. Cocaine. Antisepsis. Dec. 6. Secondary operation. 21 days.	V. = 0.5

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
26	Female. 55 Irish. Good.	Senile. Mature. 2 years. Normal	Dec. 5, 1888. Græfe up. Cocaine. Slight wound of iris in making section. Considerable cortical left after operation, but counted fingers readily. Bandage removed and lids washed daily. No pain. Bandage removed fifth day. Atropine. 17 days.	V. = 0.8
27	Female. 60 Irish. Good.	Senile. Mature. 4½ years. Normal.	Dec. 5, 1888. Græfe up. Cocaine. Anterior chamber very shallow. Slight wound of iris in making section. Clear, black pupil left. Counted fingers readily Bandage removed and lids washed daily. Bandage left off seventh day. Conjunctivitis and slight iritis. 27 days.	V. = 0.5
28	Male. 80 B. P. Good.	Senile. Mature. 10 years. Normal.	Dec. 6, 1888. Græfe up. Cocaine. Operation normal. Small piece of capsule left in pupil, on account of its attachment to iris. Healing process normal. Atropine daily. June 3, 1889. Secondary operation. 18 days.	V. = 0.2
29	Female. 44 Irish. Fair.	Senile. Mature. 2 years. Normal.	Dec. 10, 1888. Græfe up. Cocaine. Antisepsis. Dec. 17. Opened. Moderate redness. Mild iritis. Atropine. 22 days.	V. = 0.2
30	Female. 71 Amer. Fair.	Senile. Mature. Normal.	Dec. 10, 1888. Græfe up. Cocaine Small cut. Operation normal. Counted fingers readily. Lids washed daily. Atropine. Bandage removed fifth day. 17 days.	V. = 0.4
31	Female. 54 Amer. Good.	Senile. Mature. Normal.	Dec. 10, 1888. Græfe up. Cocaine. Small cut. Considerable cortical. Counted fingers readily. Atropine. Lids washed daily. Dec. 16. Considerable cortical left. Dec. 25. Cortical and capsule in pupil. No adhesions. 21 days.	V. = 0.3
32	Male. 37 Can'd'n. Good.	Mature. 1 year. Normal.	Dec. 13, 1888. Græfe up. Cocaine. Antisepsis. Much sticky cortical, with capsule, left in pupil. 12 days.	V. = 0 2

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
33	Male. 54 Amer. Good.	Senile. Mature. 1½ years. Normal.	Dec. 13, 1888. Græfe up. Cocaine. Antisepsis. Eserine. On attempting to open capsule, lens sank a little, and vitreous presented. Scoop used; moderate loss of vitreous. Dec. 20. Eye opened. Pupil free; looks well. Dec. 22. Pain yesterday. Much photophobia. Some chemosis of ocular conjunctiva. Atropine and antiseptic wash. Panophthalmitis.	V. = 0.0
34	Female. 58 Irish. Good.	Senile. Mature. 8 years. Normal.	Dec. 13, 1888. Græfe up. Cocaine Antisepsis. Convalescence normal. Jan. 20, 1889. Secondary operation. 23 days.	V. = $\frac{5}{15}$
35	Male. 64 Amer. Good.	Senile. Mature. 14 years. Normal.	Dec. 24, 1888. Græfe up. Cocaine. Operation normal. Counted fingers readily. Lids washed daily. Bandage left off fifth day. Good union. Jan. 14. 1889. Vision found poor. Hæmorrhages seen in macula. Pupil good, round, no adhesions. 25 days	V. = $\frac{3}{50}$
36	Female. 58 Irish. Good.	Senile. Hypermature. 5 years. Normal.	Jan. 3, 1889. Græfe up. Cocaine. Nucleus very dark. Absolutely no cortical. Eye looked well after operation. No pain or discomfort. Bandage left off sixth day. Atropine. Some opaque capsule in pupil, which remained at time of discharge. 20 days.	V. = 0.1
37	Male. 55 Irish. Good.	Senile. Mature. 4 years. Normal.	Jan. 3, 1889 Græfe up. Cocaine. Atropine. Convaleseence normal. 23 days.	V. = $\frac{5}{20}$
38	Female. 66 Amer. Good.	Senile. Mature. 1½ years. Normal.	Jan. 3, 1889. Græfe up. Cocaine. Atropine. Patient developed a plastic iritis, which began third day, and continued a month. 42 days.	V. = pereeption of light.
39	Female. 68 Irish. Good.	Senile. Mature. 4 years. Normal.	Jan. 7, 1889. Græfe up. Cocaine. Atropine. Operation and convalescence normal. Jan. 31. Secondary operation. 28 days.	V. = $\frac{5}{6}$
40	Male. 65 Amer. Fair.	Senile. Mature. 1½ years. Normal.	Jan. 17, 1889. Græfe up. Cocaine. Patient unmanageable during operation. Vitreous presented, but none lost. Normal convalescence. Some pigment in wound. 49 days.	V. = 0.3

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
41	Male. 73 Irish. Good.	Senile. Mature. 2½ years. Normal.	Jan. 28, 1889. Græfe up. Cocaine. Antisepsis. Normal operation. Much capsule left. Eye opened on eighth day. No redness, clear cornea. Pupil apparently full of capsule. Atropine. 17 days.	V. = 0 3
42	Female. 70 Amer. Good.	Senile. Mature. 6 months. Normal.	Jan. 31, 1889. Græfe up. Cocaine. Lens expressed with difficulty, finally expelled by sudden squeezing together of lids by patient, carrying with it a good part of the iris adherent. Pupil filled with pigment and blood. Atropine. Considerable discharge of blood on dressing. Bandage left off eighth day. Iris present on outer side; wanting elsewhere. Film of blood in pupil, clear above. 42 days.	V. = 0.1
43	Female. 56 Amer. Good.	Senile. Mature. 2 years. Normal.	Feb. 25, 1889. Græfe up. Cocaine. Eserine later. Normal operation. Much cortical and capsule remained in pupil. Eye opened eighth day. 79 days.	V. = $\frac{1}{50}$
44	Female 54 Irish. Good.	Senile. Mature. 4 years. Normal.	Feb. 11, 1889. Græfe up. Cocaine. Patient unruly, and contracted lids, so iris prolapsed and vitreous expelled. Ether given and operation completed with scoop. Feb. 18. Opened eye. Good ant. chamber, little redness. Pupil contracted. Atropine. March 2. Insisted on going home. Discharged against consent and advice. Eye still quite red To return for secondary operation.	V. = motion of hand at 1 metre.
45	Male. 65 Amer. Fair.	Senile. Mature. 1½ years. Normal.	Feb. 13, 1889. Græfe up. Cocaine. Atropine. Bandage removed eighth day. Convalescence normal. 22 days.	V. = 0.8
46	Male. 49 Irish. Good.	Senile. Mature. 1½ years. Normal.	Feb. 13, 1889. Græfe up. Cocaine. Atropine. Convalescence normal. 19 days.	V. = 0.4
47	Female. 52 Amer. Good.	Senile. Mature. 4 years. Normal.	Feb. 14 1889. Græfe up. Cocaine. Some cortical left in pupil. Bandage removed eighth day. Absorption of cortical hindered recovery. March 18. Secondary operation. 37 days.	V. = 0.4

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
48	Female. 50 Amer. Good.	Senile. Mature. 1 year. Normal.	Feb. 18, 1889. Græfe up. Cocaine. Iridectomy freed a great deal of pigment. Iris prolapsed easily, but was returned before closing. Atropine. Convalescence normal. 31 days	V. = 0.5
49	Female. 60 Irish. Good.	Senile. Mature. 2 years. Normal.	Feb. 20, 1889. Græfe up. Cocaine. Antisepsis. Nucleus large, no cortical. Atropine. Bandage removed seventh day. 20 days.	V. = 0.5
50	Female. 64 Irish. Poor.	Senile. Mature. 6 months. Normal.	Feb. 26, 1889. Græfe up. Cocaine. Atropine. Patient got out of bed on night of operation, and every subsequent night, disturbing bandage. Delirious and violent. Opened eyes whenever dressing was changed. Discharged on account of general condition. Pupil good. Much injection. 21 days.	V. = 0.1
51	Female. 43 B. P. Good.	Senile. Mature. 2 years. Normal.	March 5, 1889. Græfe up. Cocaine. Antisepsis. Bandage removed eighth day. Atropine. Convalescence normal. 18 days.	V. = 0.8
52	Female. 63 Amer. Good.	Senile. Mature. 6 months. Normal.	March 9, 1889. Græfe up. Cocaine. Antisepsis. Normal convalescence. April 20. Secondary operation.	V. = 0.2
53	Female. 57 Irish. Good.	Senile. Mature. 1 year. Normal.	March 12, 1889. Græfe up. Cocaine. Antisepsis. Atropine. Bandage removed eighth day. 22 days.	V. = 0.4
54	Male. 80 Amer. Good.	Senile. Mature. 1 year. Normal.	March 13, 1889. Græfe up. Cocaine. Antisepsis. Bandage removed ninth day. Some cortical in pupil. Atropine. 21 days.	V. = 0.1
55	Male. 78 Irish. Good.	Senile. Mature. ½ year. Normal.	March 15, 1889. Græfe up. Cocaine. Antisepsis. Bandage removed eighth day. Atropine. 25 days.	V. = 0.1
56	Male. 67 Irish. Good.	Senile. Mature. ½ year. Normal.	March 15, 1889. Græfe up. Cocaine Antisepsis. Bandage removed eighth day. Atropine. 19 days.	V. = 0.2

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
57	Female. 47 English. Good.	Senile. Mature. 1 year. Normal.	March 19, 1889. Græfe up. Cocaine. Antisepsis. Bandage removed eighth day. Atropine. 15 days.	V. = 0.1
58	Female. 74 Amer. Fair.	Senile. Mature. ½ year. Normal.	March 26, 1889. Græfe up. Cocaine. Antisepsis. On third morning little pus on pad. Suppuration beginning on inside of wound.	V. = 0.0
59	Male. 61 Irish. Good.	Senile. Mature. 1 year. Normal.	March 21, 1889. Græfe up. Cocaine. Antisepsis. Convalescence normal 24 days.	V. = 0 2
60	Male. 64 Amer. Good.	Senile. Mature. 1 year. Normal.	March 29, 1889. Græfe up. Cocaine. Antisepsis. 14 days.	V. = $\frac{5}{20}$
61	Male. 57 Irish. Good.	Senile. Mature. Doubtful. Separation of retina, o s.	March 31, 1889. Græfe up. Cocaine. Antisepsis. Convalescence normal. April 17. Secondary operation. 30 days.	V. = $\frac{3}{50}$
62	Male. 60 English. Good.	Senile. Mature. 1 year. Normal.	April 2, 1889. Græfe up. Cocaine. Antisepsis. Convalescence normal. 22 days.	V. = 0.1
63	Female. 71 Amer. Fair.	Senile. Mature. 4 years. Normal. Opacity of cornea.	April 19, 1889. Græfe up. Cocaine. Antisepsis. 18 days	V. = 0.1
64	Female. 59 Amer. Good.	Senile. Mature. 2 years. Normal.	April 23, 1889. Græfe up. Cocaine. Antisepsis. Convalescence normal. 18 days.	V. = 0.3
65	Female. 62 Amer. Good.	Senile. Mature. 2 years. Normal.	April 23, 1889. Græfe up. Cocaine. Antisepsis. Convalescence normal. Atropine. 18 days.	V. = 0.3
66	Female. 60 Irish. Fair.	Senile. Mature. 5 years.	April 26, 1889. Græfe up. Cocaine. Antisepsis. Scoop used. No nucleus found. Convalescence, low form of iritis; blocked pupil. 48 days.	V. = perception of light.

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
67	Male. 54 Irish. Good.	Senile. Mature. 1 year. Normal.	April 30, 1889. Græfe up. Cocaine. Antisepsis. Normal convalescence. 16 days.	V. = 0.5
68	Female. 60 Russian. Poor.	Senile. Mature. 2 years. Normal.	May 1, 1889. Græfe up. Cocaine. Antisepsis. Prolapse of iris. Patient had chronic bronchitis and coughed severely after operation. 15 days.	V. = 0.2
69	Male. 65 Irish. Good.	Senile. Mature. 1 year. Normal.	May 10, 1889. Græfe up. Cocaine Atropine. May 31. Considerable cortical absorbing. 22 days.	V. = 0.2
70	Female. 76 Amer. Fair.	Senile. Mature. 6 years. Normal.	May 14, 1889. Græfe up. Cocaine. Antisepsis. Slight relapse in convalescence. 16 days.	V. = 0.2
71	Female 80 Amer. Fair.	Senile. Mature. 5 years. Normal.	May 15, 1889. Græfe up. Cocaine. Antisepsis. 20 days.	V. = 0.1
72	Female. 60 N. S. Good.	Senile. Mature. 1 year. Normal.	May 15, 1889. Græfe up. Cocaine. Antisepsis. 26 days.	V. = 0.2
73	Female. 70 Amer. Good.	Senile. Mature. 6 months. Normal.	May 15, 1889. Græfe up. Cocaine. Antisepsis. Large prolapse of iris in convalescence. 26 days.	V. = 0.1
74	Female. 40 Scotch. Good.	Senile. Mature. 6 months. Normal	May 16, 1889. Græfe up. Cocaine. A considerable portion of iris was removed because of sudden movement of patient. Antisepsis. Slight iritis Atropine. 21 days.	V. = 0.1
75	Female. 43 Amer. Good.	Senile. Mature. 6 months. Normal.	May 16, 1889. Græfe up. Cocaine. Antisepsis. June 6. Still much cortical in pupil. May 28 and Sept. 15. Secondary operations. 21 days.	V. = $\frac{1}{50}$
76	Female. 44 Amer. Good.	Senile. Mature. 3 years. Normal.	June 6, 1889. Græfe up. Cocaine. Operation normal. Bandage removed eighth day. Lids washed daily. June 15. Slight prolapse of iris at inner part of wound. June 21. Tag of iris excised. 23 days.	V. = 0.5

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
77	Female. 55 Irish. Poor.	Senile. Mature. Normal.	June 10, 1889. Græfe up. Cocaine. Operation normal. Patient had organic heart disease, and before completion of section, had to be raised in bed; operation completed with patient in sitting posture. Bandage removed sixth day. Lids washed daily. Atropine. 17 days.	V. = 0.2
78	Female. 65 Irish. Good.	Senile. Mature. 1½ years. Normal.	June 10, 1889. Græfe up. Cocaine. Operation normal. Convalescence normal. 17 days.	V. = 0.5
79	Male. 68 Amer. Fair.	Senile. Mature. 3 years. Normal.	June 11, 1889. Græfe up. Cocaine. Operation normal. Normal convalescence. Atropine 21 days.	V. = 0.1
80	Female. 71 Amer. Fair.	Senile. Mature. 6 years. Normal.	June 12, 1889. Græfe up. Cocaine. Some cortical left in pupil. Bandage removed eighth day. Atropine. Slight iritis unaccompanied with pain. July 11. Secondary operation. 21 days.	V. = 0.5
81	Male. 53 Irish. Good.	Senile. Mature. 1 year. Normal.	June 13, 1889. Græfe up. Cocaine. Small iridectomy. Hard nucleus. No cortical. Convalescence normal. Bandage removed sixth day. Atropine. Aug. 8. Secondary operation. 19 days.	V. = 0.2
82	Male. 49 Irish. Good.	Senile. Mature. 2 years. Normal.	June 13, 1889. Græfe up. Cocaine. Operation in every way normal. Counted fingers readily. Chemosis of lids and discharge of pus noticed on third day later some puffiness of cheek. Panophthalmitis. Patient had had successful operation in other eye six months before.	V. = 0.0
83	Male. 63 Irish. Good.	Senile. Mature. 1 year. Normal.	June 22, 1889. Græfe up. Cocaine. Antisepsis. Iritis developed fifth or sixth day, — rheumatic. 47 days.	
84	Male. 79 Amer. Fair.	Senile. Mature. 3 years. Normal.	July 2, 1889. Græfe up. Cocaine. Small iridectomy. Bandage removed sixth day. Atropine. July 12. Considerable cortical and opaque capsule. July 29. Secondary operation.	V. = 0.2

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
85	Male. 57 Irish. Good.	Senile. Mature. 5 years. Normal.	July 2, 1889. Græfe up. Cocaine. Normal operation and convalescence. Eye opened sixth day. Atropine. 15 days.	V. = 0.8
86	Male. 50 Amer. Good.	Senile. Mature. 3 years. Normal.	July 8, 1889. Græfe up. Cocaine. Antisepsis. Bandage removed sixth day. Atropine daily. 16 days.	V. = 0.3
87	Female. 60 English. Fair.	Senile. Mature. 5 years. Normal.	July 10, 1889. Græfe up. Cocaine. Antisepsis. Normal operation. Iodoform dressing. July 24. Secondary operation 17 days.	V. = 0.3
88	Male. 60 Irish. Good.	Senile. Mature. 1 year. Normal.	July 15, 1889. Græfe up. Cocaine. Much cortical. Small nucleus. Antisepsis. Atropine. Bandage left off sixth day. 9 days.	V. = 0.7
89	Male. 70 Irish. Good.	Senile. Mature. 4 years. Normal.	July 17, 1889. Græfe up. Cocaine. Counted fingers readily. Bandage removed fifth day. Conjunctivitis with slight muco-purulent discharge. 32 days.	V. = 0.2
90	Female. 61 Amer. Fair.	Senile. Hypermature. 12 years. Normal.	July 18, 1889. Græfe up. Cocaine. Small iridectomy. Normal convalescence. 14 days.	V. = 0.4
91	Female. 65 Irish. Good.	Senile. Mature. 2 years. Normal.	July 20, 1889. Græfe up. Cocaine. Antisepsis. Iodoform dressing. Aug. 9. Secondary operation. 24 days.	V. = 0.5
92	Female. 48 English. Good.	Senile. Mature. 3 years. Normal.	Aug. 1, 1889. Græfe up. Cocaine. Operation normal. Atropine. Aug. 5. Pain. Aug. 8. Some hypopyon. Pus absorbed later. 28 days.	V. = 0.1
93	Male. 52 Amer. Good.	Senile. Mature. 1 year. Normal.	Aug. 7. 1889. Græfe up. Cocaine. Antisepsis. Iris wounded during operation. Aug. 24. Secondary operation. 12 days.	V. = 0.4
94	Male. 78 Irish. Fair.	Senile. Mature. 1 year Normal.	Aug. 5, 1889. Græfe up. Cocaine. Incision of capsule made with Græfe knife. No cystotome used. Bandage removed seventh day. 17 days.	V. = 0.2

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
95	Female. 54 Irish. Good.	Senile. Mature. 2 years Normal.	Aug. 12, 1889. Græfe up. Cocaine. Capsule divided with knife in making section. Nucleus forced out by squeezing of lids before the iridectomy; clear, black pupil left. Atropine. Bandage removed seventh day. Injection. Considerable cortical in pupil. 25 days.	V. = 0.2
96	Male. 57 Irish. Good.	Senile 1 year. Normal.	Aug. 12, 1889. Græfe up. Cocaine. Small iridectomy. Operation normal. Bandage removed seventh day. Convalescence normal. 10 days.	V. = 0.3
97	Female. 67 Amer. Fair.	Senile. 1 year. Normal.	Aug. 21, 1889. Græfe up. Cocaine. Antisepsis. 13 days.	V. = 0.4

SIMPLE EXTRACTIONS.

98	Female. 58 B. P. Good.	Senile. Mature. 2 years. Tremulous iris. Normal.	Sept. 16, 1888. Simple extraction. Cocaine. Antisepsis. Eye opened second day. Pupil round and central. Atropine. 24 days.	V. = 0.2
99	Male. 43 Irish. Good.	Traumatic. 10 months. Normal.	Sept. 22, 1888. Simple extraction. Cocaine. Antisepsis. At discharge pupil filled with cortical. 3 months later, V. = 0.2.	V. = 0.2
100	Male. 78 Irish. Good.	Senile. Mature. 1½ years. Normal.	Sept. 24, 1888. Simple extraction. Cocaine. Antisepsis. Round central pupil on opening second day. Atropine. 15 days.	V. = 0.4
101	Male. 65 Irish. Good.	Senile. Mature. 5 months. Normal.	Sept. 24, 1888. Simple extraction. Cocaine. Opened second day. Round central pupil. Atropine. Some posterior synechiæ later. 18 days.	V. = 0.2
102	Male. 70 Irish. Good.	Senile. Mature 18 years. Normal.	Sept 26, 1888. Simple extraction. Cocaine. Antisepsis. Eye opened same evening. Large prolapse of iris excised. Oct. 2. Bandage removed. Pupil clear. No prolapse. 13 days.	V. = 0.5

No.	Sex. Age. Nation. Health	Quality and Duration of Cataract. Functional Examination	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
103	Female. 76 Amer. Good.	Senile. Mature. 2 years. Normal.	Oct. 11, 1888. Simple extraction. Cocaine. Antisepsis. Opened second day. Round central pupil. Bandage removed seventh day. Few posterior synechiæ. 14 days	V. = 0.2
104	Male 60 Eng. Good.	Senile. Mature. Normal.	March 21, 1889. Simple extraction. Cocaine. During convalescence iris prolapsed, excised. 24 days.	V. = 0.2
105	Male. 68 Irish Fair.	Senile. Mature. 1½ years. Normal.	May 3, 1889. Simple extraction. Cocaine. Some vitreous lost. Pupil round and central. Considerable cortical. 19 days.	V. = $\frac{5}{30}$
106	Female. 57 Amer. Good	Senile. Mature. 3 years. Normal.	May 28, 1889. Simple extraction. Cocaine. Antisepsis. June 13. Much cortical in pupil. July 19. Opaque capsule. To return for secondary operation. 16 days.	V. = motion of hand.
107	Male. 65 English. Good.	Senile. Mature. 1 year. Normal.	May 30, 1889. Simple extraction. Cocaine. Antisepsis. Normal convalescence. 14 days.	V. = 0.2
108	Female. 60 French. Good.	Senile. Mature. 1 year. Normal	June 19, 1889. Simple extraction. Cocaine. Antisepsis. Prolapse of iris second day. Abscised. Cystoid cicatrix resulted. June 22. Secondary operation. 16 days.	V. = $\frac{5}{15}$
109	Male. 47 English. Good.	Senile Mature. 1 year. Normal.	July 11, 1889. Simple extraction. Cocaine. Antisepsis. Operation normal. Iodoform dressing. Round pupil. 16 days.	V. = 0.1
110	Female. 70 Irish. Fair.	Senile. 5 years. Normal.	July 25, 1889. Simple extraction. Cocaine. Antisepsis. Healing normal. Aug. 9. Secondary. 19 days.	V. = $\frac{5}{30}$
111	Female. 60 Amer Good.	Senile. Mature. 2 years Normal.	Aug. 10, 1889. Simple extraction. Cocaine. Antisepsis. Recovery normal until sixth day, when wound reopened and iris prolapsed. Abscised. Healed kindly. 21 days.	V. = 0.1

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
112	Female. 70 Irish. Fair.	Senile. Mature. 1 year. Normal.	Aug. 10, 1889. Simple extraction. Cocaine. Antisepsis. Blow on eye reopened wound on third day. Ant. chamber did not refill for four days. Aug. 24. Secondary. 18 days.	V. = $\frac{5}{30}$
	SIMPLE EXTRACTION, WITH EXCISION OF A CIRCULAR BIT OF IRIS.			
113	Male. 54 Irish. Good.	Senile. Mature. 1½ years. Normal.	April 12, 1889. Simple extraction, with excision of a circular bit of iris. Cocaine. 15 days.	V. = 0.5
114	Male. 60 Irish. Good.	Senile. Mature. 1 year. Normal.	April 12, 1889. Simple extraction, with excison of a circular bit of iris. Cocaine. 15 days.	V. = 0.2
115	Male. 47 B. P. Good.	Senile. Mature. 1½ years. Normal.	April 17, 1889. Simple extraction, with excision of a circular bit of iris. Operation normal. Atropine. Eighth day. Large pupil; one or two synechiæ. Some cortical Atropine. 16 days.	V. = 0.7
116	Female. 46 Amer. Good.	Senile. Mature. 5 years. Normal.	April 26, 1889. Simple extraction, with excision of circular bit of iris. Cocaine. Antisepsis. In convalescence prolapse of iris. 15 days.	V. = 0.7
117	Female. 78 Irish. Good.	Senile. Mature. 6 months. Normal.	April 27, 1889. Simple extraction, with excision of a circular bit of iris. Normal operation. Atropine. Bandage removed eighth day. Pupil large. One or two posterior synechiæ. 14 days.	V. = 0.3
118	Female. 90 N. S. Good.	Senile. Mature. 6 months. Normal.	May 2, 1889. Simple extraction, with excision of a circular bit of iris. Cocaine. Antisepsis Iritis. Large amount of cortical in area of pupil. May 30. Secondary. 34 days.	V. = $\frac{5}{30}$
119	Male. 55 Amer. Good.	Senile. Mature. 1½ years. Normal.	May 3, 1889. Simple extraction, with excision of a circular bit of iris. Cocaine Atropine May 7. Attack of acute mania. Tore bandage from eyes. Taken home against advice. Eye apparently doing well, wound united and pupil well dilated. Atropine. Undoubtedly good vision. Has been requested to return.	

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
120	Male. 67 Irish. Good.	Senile. Mature. 6 months. Normal.	May 3, 1889. Simple extraction, with excision of a circular bit of iris. Cocaine. Number of post. synechiæ; considerable cortical. Pupil round and central. May 16. Secondary operation. 31 days.	V. = $\frac{5}{15}$
121	Female. 45 Amer. Good.	Senile. Mature. 2 years. Central projection poor. Lateral fixation.	May 4, 1889. Simple extraction, with excision of a circular bit of iris. Cocaine. Eye opened eighth day. Atropine. Pupil dilated Cortical in pupil tenth day. Small prolapse of iris. May 28. Prolapse excised. May 28 and June 7. Secondary operations. 60 days.	Counted fingers with difficulty at one metre on right side.
122	Female. 60 Irish. Fair.	Senile. Mature. 1 year. Normal.	May 11, 1889. Simple extraction, with excision of a circular bit of iris. Cocaine. Operation normal. Bandage removed eighth day. Wound well united. Pupil small; does not dilate with atropine. May 24. Pain. Wound bulged a little. June 15. Capsule in pupil. 35 days.	V. = fingers at one metre.
123	Male. 66 Amer. Good.	Senile. Mature. 1 year. Normal.	Aug. 30, 1889. Simple extraction, with excision of a circular bit of iris. Cocaine. 15 days.	V. = 0.2

WECKER.

124	Male. 74 English. Good.	Senile. Mature. 1 year Normal.	Nov. 3, 1888. Wecker. Cocaine. 18 days.	V. = 0.4
125	Female. 48 Amer. Good.	Senile. Mature. 2 years. Normal.	Nov. 7, 1888. Wecker. Cocaine. 23 days.	V. = 0.5
126	Male. 53 Can'd'n. Good.	Senile. Mature. 4 years. Normal.	Nov. 8, 1888. Wecker. Cocaine. 20 days.	V. = 0.4
127	Male. 71 Amer. Good.	Senile. Mature. 3 years. Normal.	Nov. 12, 1888. Wecker. Cocaine. 16 days.	V. = 0.7

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
128	Male. 73 Amer. Good.	Senile. Mature. 8 years. Normal.	Nov. 22, 1888. Wecker. Cocaine. 14 days.	V. = 0.4
129	Female. 64 English. Good.	Senile. Mature. 2 years. Normal.	Nov. 23, 1888. Wecker. Cocaine. 15 days.	V. = 0.6
130	Female. 60 Irish. Good.	Senile. Hypermature. 25 years. Normal.	March 2, 1889. Wecker. Cocaine. Small hole made in iris above. Atropine. Bandage removed eighth day. Some synechiæ, but pupil well dilated. 26 days.	V. = 0.5

OTHER METHODS.

131	Male. 13 Amer. Fair.	Congenital — nearly entire. Normal.	Sept. 9, 1888. Simple linear extraction. Cocaine. Antisepsis. Bandage removed fourth day. Atropine. 16 days.	Estimated V. = 0.4
132	Male. 13 Amer. Fair.	Congenital — nearly entire. Normal.	Sept. 13, 1888. Simple linear extraction. Cocaine. Antisepsis. Bandage removed fourth day. Round central pupil. 12 days.	Estimated V. = 0 4
133	Male. 8 Amer. Good.	Congenital; cretaceous points in capsule. Normal.	Sept. 24, 1888. Simple linear extraction. Cocaine. Antisepsis. Eye opened third day. Round central pupil. Considerable opaque capsule. Atropine. Oct. 2. Secondary operation. 21 days.	V. = 0.4
134	Male. 47 Irish. Good.	Senile. Mature. 1 year. Normal.	Nov. 3, 1888. Le Brun extraction. Cocaine. Antisepsis. Semi-opaque membrane in pupil. Nov. 21. Secondary operation. 25 days.	V. = 0.5
135	Female. 64 English. Good.	Senile. Mature. 2 years. Normal.	Feb. 14, 1889. Modified flap extraction. Cocaine. Eserine. Convalescence retarded by a mild iritis accompanied by repeated hæmorrhages. Atropine. Bandage removed seventh day. March 21. Secondary operation. 42 days.	V. = 0.8

SUCTION.

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
136	Male. 1½ Irish. Poor.	Soft. Glioma expected.	Nov. 19, 1888. Suction. Ether. Glioma. Refused operation for enucleation.	
137	Male. 21 Amer. Good.	Traumatic. 6 weeks.	Jan. 9, 1889. Suction. Cocaine. A piece of capsule was removed with forceps. 10 days.	V. = 0.2
138	Male. 30 Irish. Good.	Traumatic. 1 month. For. body suspected in eye.	Feb. 7, 1889. Suction. Cocaine. Electro-magnet used. 6 days.	V. = 0.1
139	Male. 8 Amer.	Congenital.	May 14, 1889. Suction. Ether. 14 days.	V. = 0.1
140	Male. 39 Irish. Good.	Traumatic. 5 months.	June 6, 1889. Suction, through corneal wound. Cocaine. Atrophia. 30 days.	
141	Female. 13 Irish.	Traumatic Anterior Synechia.	June 4, 1889. Suction. Cocaine. 14 days.	
142	Male. 16 Irish.	Traumatic. 9 months.	June 25, 1889. Suction. Cocaine. 26 days.	
143	Male. 39 German. Good.	Traumatic. 2 weeks.	July 1, 1889. Suction. Cocaine.	V. = 0.1
144	Male. 28 S. Good.	Traumatic. 1 week.	July 30, 1889. Suction. Aug. 21. Secondary operation. 39 days.	
145	Male 4 Amer.	Traumatic.	July 27, 1889. Suction. Ether. 8 days.	

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Duration of Treatment.	Vision.
146	Male. 37 Amer.	Traumatic. 8 months. Blow steel.	Aug. 10, 1889. Suction. Cocaine. Piece of steel removed from iris by electro-magnet at operation. 10 days.	
147	Female. 25 Irish.	Traumatic.	Aug. 3, 1889. Suction. Cocaine. 4 days.	

SIXTY-FIFTH

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OFFICERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary,

1890-91.

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FRANCIS I. PROCTOR, M. D.

CLINICAL ASSISTANTS.

EDWARD M. PLUMMER, M. D.
WM. SOHIER BRYANT, M. D.

GEORGE STEDMAN, M. D., *Superintendent.*

MARY H. NUGENT, *Matron.*

REPORT OF THE MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1890.

During the past year there has taken place in the material history of the Infirmary the most important event since 1850. In that year the main part of the present building on Charles Street was finished, and thoroughly satisfied at the time all the wants of the institution. But, with the increase in population in Boston and its neighborhood, has come an inevitable increase in the needs of its community, shown in the annual lengthening of the list of patients which the Infirmary has been called upon to treat, the numbers having risen from 2,004 in 1850 to over 15,000 during the past year.

Especially have needs developed in the operating departments, due partly to the increase in the number of patients, and more yet to the great advance during the last few years in optical and aural surgery. Fortunately, most things, even buildings, are to a certain extent elastic, and can be stretched in capacity. But these, too, have, after all, a limit; and, in the case of the Infirmary, greater and more detailed accommodation has for some time been much wanted by the Surgeons. To meet this demand, negotiations were begun last spring for the purchase of the two houses next to the Infirmary, and in June the Managers succeeded in buying

them. They are now being altered to suit the Infirmary, and will soon be ready for use. More than half of the purchase money was generously presented for the purpose through the munificence of a lady friend of the Infirmary, but money will of course be needed both to pay for the necessary alterations of the houses and to meet the increased annual expenses due to this large addition to the building; and we trust that a community that both publicly and privately has been so generous and appreciative in the past is not likely to desert the institution in the future.

Another event of special concern in the chronicles of the Infirmary has been the regretted retirement of Dr. F. P. Sprague. How thoroughly the Managers appreciate this inevitable loss is perhaps best expressed by their vote upon it, passed at their last meeting, which is therefore inserted here just as it stands upon the records: —

"*Voted*, That the Managers have learned with great regret the wish of Dr. Sprague to be relieved from further service at the Infirmary.

"Appointed to the staff of Surgeons in 1864, he began his work at a time when the advance made in the study of the diseases of the eye in Germany had effected almost a revolution in the course of treatment.

"Returning from his studies abroad, in company with others taught in the same school, he and the other young physicians, as they then were, took upon themselves the work of the Infirmary, and have carried it on to its present high condition; while not a murmur of discontent or jealousy has marred the disinterested labors of these young students, now grown to their prime, and full of honor in their profession.

"The Managers have had every reason to be gratified with the progress of the Infirmary in the hands of these gentlemen, who have all equally given their best efforts in its

behalf, and they would take this opportunity to offer to them their acknowledgments and congratulations.

"This is the first break in those ranks, and we deplore it both for what it is and for what it foreshadows.

"The Managers cannot part with Dr. Sprague without expressing to him their sense of individual and personal loss that his kindly disposition and strong sense of right will be no longer at their service in the discussion of the larger interests of the Infirmary. They would wish him many years of health and happiness, with the content that accompanies the retrospect of faithful, disinterested and skilful labors."

The Managers also deeply regret to be obliged to announce the resignation from their Board of Mr. William R. Robeson after an uninterrupted and devoted service of twenty years. The great interest which he always evinced in the Infirmary, and his kindly courtesy to all with whom he came in contact, will long make his loss felt by the Institution and the Managers. His place on the Board has been taken by Dr. Charles G. Weld.

CHARLES P. CURTIS,
PERCIVAL LOWELL,
For the Board of Managers.

The Surgeons, in their following report, have called the attention of the Managers "to the many applicants who are not proper objects of charity." To distinguish these is not always possible, and in any case, it consumes valuable time to do so, besides making it necessary to make inquiries, as painful to the Surgeons as to the applicants. The Managers therefore would take this opportunity to state that the charity is *not intended for those able to employ and compensate a surgeon for his services;* and they add the following

extract from the Regulations of the Infirmary, for the information of such of the public as may wish to apply for assistance either for themselves or for poor people in whom they are interested: —

"ART. 5. All poor persons afflicted with diseases of the eye or ear, desiring medical treatment as out-door patients, can receive the same gratuitously by applying at the Infirmary in Charles Street, from nine to eleven o'clock, on each day of the week, Sundays and legal holidays excepted; and all applicants for admission as house patients must obtain at the same hours, from the Surgeon on duty, a certificate that the case is a proper one for treatment, and then apply to the Superintendent for admission; and any admission made shall be notified to the Surgeon of the day by the Superintendent; but in cases of accident, or special exigency, the Superintendent may admit to the house temporarily, awaiting a medical examination. Three weeks' board in advance, at a price established from time to time by the Managers,* shall be charged to all patients; the Superintendent, with the approval of the Visiting Committee, may accept a smaller amount, or grant admission to a free bed, in such cases as he shall think proper, and whenever so instructed by the Visiting Committee. At every continuance of a paying patient, board in advance shall be charged for the term of such continuance at the previous rate, unless changed by the Visiting Committee, and all patients leaving before the expiration of their term shall be entitled to a proportionate return. When a patient remains only one day, the charge shall not be less than one dollar. The price of board of any patient, as approved by the Visiting Committee, shall not be altered unless by their permission."

EDWARD I. BROWNE,
Secretary.

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* Now six dollars per week.

REPORT OF THE SURGEONS.

To the Managers of the Massachusetts Charitable Eye and Ear Infirmary.

For the Year ending Sept. 30, 1890.

Gentlemen, — The Surgeons of the Infirmary herewith present their report for the year ending Sept. 30, 1890. The whole number of new patients applying has been 15,289. These were divided as follows : —

Eye Patients	10,931
Ear Patients	4,358

These numbers show the large increase, over the previous year, of 1,085. Of the total of 15,289, Boston contributed 8,283, and other parts of Massachusetts 6,481. The small remainder comes almost exclusively from New England. There have been many important operations performed, among them 144 extractions for cataract. These are appended in special tables giving the customary details. The number of cases recorded as unfit calls attention to the many applicants who are not proper objects of charity. This arises largely from ignorance on their part, and on the part of others who send them. To treat gratuitously persons able to pay for medical service is not only in all respects an unfair tax upon the Surgeon, but also on the resources of the Infirmary ; and is, moreover, unjust to the donors, who made their contributions with a different understanding.

The annual growth of the Institution still continues, and shows no signs of abatement. For the past two years it has been especially large and difficult to cope with. The increased accommodation, that the Managers have so wisely provided, by securing additional buildings, will be of immense benefit to both departments, and the surgeons wish to testify to their appreciation of the liberality and foresight by which this has been accomplished. It is to be hoped that the public will realize the weight of the burden thus imposed on the finances of the Infirmary and come generously to its support. It has often been pointed out that the good accomplished has its economical side, in restoring to labor many who would otherwise be a charge upon the community. The Assistant Surgeons have contributed a large amount of valuable work the past year, and thanks are also due to the Superintendent and Internes. The Matron, Mrs. Eliza M. Whitford, after sixteen years of continued and faithful labor, has resigned her position, and the Surgeons wish to express their recognition of her fidelity and devotion to the interests of the Institution during this long period.

FRANCIS P. SPRAGUE, M. D.,
E. D. SPEAR, M. D ,
For the Board of Surgeons.

STATISTICS.

Oct. 1, 1889, to Oct. 1, 1890.

CLASSIFICATION OF PATIENTS, DISEASES, AND OPERATIONS.

House Patients.

Eye Patients:			
Males	412		
Females	264		
		676	
Ear Patients:			
Males	39		
Females	37		
		76	
Total House Patients			752

Out-Patients.

Eye Patients:			
Males	5,639		
Females	5,292		
		10,931	
Ear Patients:			
Males	2,451		
Females	1,907		
		4,358	
Total Out-Patients			15,289

Eye Patients.

Residents of Boston	5,830
" other parts of Massachusetts	4,724
" Maine	104
" New Hampshire	118
" Vermont	43
" Rhode Island	14
" Connecticut	21
" other States	43
" British Provinces	32
" England	1
" Sweden	1
Total	10,931

Occupation of Eye Patients.

Agents	89
Barbers	51
Blacksmiths	101
Carpenters	216
Children	2,280
Clergymen	6
Clerks	496
Dentists	1
Domestics	1,125
Engineers	57
Farmers	124
Firemen	33
Fishermen	24
Hatters	6
Home	1,433
Laborers	807
Leather workers	59
Masons	76

Mariners	72
Mechanics	606
Messengers	52
Metal workers	361
Milliners	17
Mill operatives	540
Musicians	11
Nurses	55
Painters	60
Photographers	6
Policemen	15
Printers	96
Provision dealers	29
Railroad	54
Rubber workers	15
Saloon keepers	6
Sewing	435
Shoemakers	183
Soldiers	4
Students	61
Stone-cutters	210
Tailors	121
Teachers	48
Teamsters	193
Traders	35
Tradesmen	21
Waiters	57
Widows	105
Wood workers	171
From the workhouse	6
From other hospitals	7
Other occupations	282
Unrecorded	13
Total	10,931

Diseases of the Eye.

Lids.

Abscess	53
Blepharadenitis	501
Blepharitis	16
Burn	9
Chalazion	273
Cuts	12
Cyst	22
Ecchymosis	9
Ectropion	23
Entropion	14
Epicanthus	2
Eczema	20
Epithelioma	6
Foreign body	48
Herpes	1
Hordeolum	43
Lagophthalmus	3
Lippitudo	1
Nævus	1
Œdema	45
Ptosis	16
Pediculus	1
Symblepharon	4
Tear of lid	4
Trichiasis	51
Tumor	12
Verruca	11
Total	1,201

Lachrymal Apparatus.

Abscess	81
Catarrh lachrymal sac	24
Epiphora and obstruction of lachrymal ducts	256
Eversion of punctum	4
Lachrymal fistula	2
Mucocele	22
Traumatic epiphora	1
Total	390

Conjunctiva.

Burns	43
Chemosis	3
Conjunctivitis, catarrhal	1,516
" diphtheritic	1
" purulent	63
" neonatorum	35
" granular	216
" " with pannus	53
" phlyctenular	367
" traumatic	72
" strumous	13
Cut of	20
Cyst	8
Ecchymosis	68
Foreign body	37
Hyperæmia	36
Hypertrophy	1
Œdema of	11
Pinguecula	23
Pterygium	89
Tumor	9
Total	2,684

Cornea and Sclera.

Abrasion	34
Abscess	6
Anterior staphyloma	17
Burn	16
Foreign body	1,039
Foreign body, anterior chamber	6
Inflamed leucoma	43
Keratitis, simplex	300
" phlyctenular	196
" interstitial	25
" traumatic	28
" fascicular	15
Keratoconus	8
Kerato-iritis	25
Lead deposit of cornea	2
Leucoma	302
Rupture of cornea	7
Ulcer	540
" vascular	34
" traumatic	39
Ulcer serpens	11
Wound of cornea	57
Episcleritis	28
Foreign body on sclera	7
Rupture of sclera	3
Scleritis	15
Sclero-keratitis	11
Staphyloma of sclera	5
Wound of sclera	11
Wound of ciliary region	18
Total	2,848

Iris and Ciliary Body.

Irido cyclitis	1
Sarcoma of iris and ciliary body	1
Tumor of iris	1
Ciliary injection	23
Coloboma iris	4
Hæmorrhage into anterior chamber	22
Hypopyon	33
Irido-dialysis	9
Iridodonesis	10
Iridoplegia, traumatic	1
Iritis	221
" syphilitic	11
" traumatic	8
Mydriasis	38
Occluded pupil	8
Prolapse of iris	10
Synechia, anterior	31
" posterior	28
Wound of ciliary body	11
Total	471

Choroid.

Albinism	2
Atrophy	5
Choroiditis	44
Iridochoroiditis, sympathetic	6
" "	5
Retino-choroiditis	2
Rupture of choroid	1
Sclerotico-choroiditis, posterior	12
Staphyloma, posterior	21
Glaucoma	43
Total	141

Lens.

Dislocation of	22
Cataract, mature	115
" anterior pyramidal	1
" capsular	12
" cortical	4
" congenital	11
" cretaceous	5
" incipient	193
" lamellar	2
" posterior polar	6
" traumatic	47
Lenticular opacity	37
Total	455

Vitreous.

Cholesterine in	1
Fibrous exudation	1
Foreign body	3
Hæmorrhage into	12
Hyalitis	8
Muscæ volitantes	18
Opacities	40
Total	83

Retina.

Embolism of central artery	4
Hæmorrhage into macula	3
Neuro-retinitis	10
Pigmented deposit	1
Retinitis	3
" albumenurica	3
Glioma of retina	2

Retinitis apoplectica	6
" pigmentosa	10
Separation of	31
Total	73

Optic Nerve.

Atrophy	47
Neuritis	22
Total	69

Eyeball and Orbit.

Disorganized globe	32
Exophthalmus	14
Foreign body	6
Inflamed stump	3
Irritable orbit	1
Phthisis bulbi	37
Rupture of globe	1
Tumor of orbit	1
" " globe	5
Panophthalmitis	1
Total	101

Refraction and Accommodation.

Asthenopia	36
Astigmatism	235
Hypermetropia	1,572
Myopia	352
Paralysis of accommodation	7
Presbyopia	505
Spasm of accommodation	6
Total	2,713

Muscular Affections and Neuroses.

Blepharospasmus	20
Ciliary neuralgia	11
Diplopia	18
Insufficiency of internal recti	14
Nictitation	5
Nystagmus	25
Paralysis of facial	10
" " third pair	24
" " sixth pair	16
Alternating strabismus	1
Strabismus convergens	260
" divergens	39
Supra orbital neuralgia	15
Total	458

Affections of the Percipient Apparatus.

Amaurosis	2
Amblyopia	31
" ex abusu	30
Hemeralopia	5
Hemiopia	2
Scotoma	4
Total	74

General Injuries.

Blows and cuts	139
Burns	36
Total	175

Miscellaneous.

Eloped	42
No disease	24

Referred to other institutions	31
Referred to ear department	10
Unfit	414
Unrecorded	127
Total	648

Summary of Eye Diseases.

Eyelids	1,201
Lachrymal apparatus	390
Conjunctiva	2,684
Cornea and sclera	2,848
Iris and ciliary body	471
Choroid	141
Vitreous	83
Lens	455
Retina	73
Optic nerve	69
Lesions of eyeball and orbit	101
Refraction and accommodation	2,713
Muscular affections and neuroses	458
Affections of the percipient apparatus	74
General injuries	175
Miscellaneous	648
Total	12,584

OPERATIONS.

Lids.

Chalazion	93
Ectropion	3
Entropion	4
Excision of cyst	9
Excision of new growth	7

Green's operation for trichiasis	11
Other operations for trichiasis	11
Incision of abscess	2
Plastic operations	3
Ptosis	5
Symblepharon	5
Total	53

Conjunctiva.

Desmarre's operation for pterygium	37
Peritomy	1
Total	38

Cornea.

Paracentesis for hypopion	6
" " ulcer	3
Removal foreign bodies	1,031
" growth	1
Sæmisch's operation	8
Transplantation cornea	1
Tatooing leucoma	1
Total	1,051

Iris.

Division of anterior synechia	2
Iridectomy for artificial pupil	12
" preparatory to cataract extraction	4
" for glaucoma	22
" for irido-choroiditis	1
" for occluded pupil	9
" for prolapsed iris	10
Iridotomy	3
Total	63

Lens.

Discission of cataract	11
" " congenital	10
" " traumatic	3
Extraction (Græfe)	92
" (simple)	3
" " with excision of circular bit of iris	30
Extraction suction	10
Miscellaneous extractions	9
Capsule operations	57
Total	225

Enucleation.

For disorganized globe	38
" foreign body in globe	3
" glaucoma	4
" melano-sarcoma	2
" glioma	2
" rupture of globe	6
" sympathetic ophthalmia	2
Total	57

Muscles.

Convergent strabismus	97
Divergent strabismus	4
Advancement of internal rectus	1
" " external "	5
Section of inferior rectus	1
Partial tenotomies	4
Total	112

Other Operations.

Bowman's on tear passage	5
Opening lachrymal abscess	8
Miscellaneous	20
Total	33

Diseases of House Patients.

Abscess of orbit	2
" " cornea	5
Burn " "	9
Lachrymal abscess	2
" obstruction	1
Cataract	139
" traumatic	31
" capsular	27
" congenital	15
Conjunctivitis, catarrhal	3
" granular	6
" " with pannus	27
" phlyctenular	2
" purulent	18
Cyst of lid	3
Dislocated lens	5
Epithelioma of cornea	1
Ectropion	6
Episcleritis	2
Entropion	7
Foreign body in cornea	3
" " " anterior chamber	5
" " " globe	8
Glaucoma	18
Glioma	2
Injury to globe	4

Intra-ocular tumor	3
Iridochoroiditis	5
Iridodonesis	2
Iritis, acute	10
" chronic	1
" specific	4
Keratitis	29
" phlyctenular	15
" interstitial	6
" vascular	1
Leucoma	24
Neuritis	1
Occluded pupil	15
Panophthalmitis	2
Phthisis bulbi	15
Ptosis	7
Pterygium	4
Rupture cornea	2
Separation of retina	3
Staphyloma anterior	8
" of sclera	1
Strabismus convergens	6
" divergens	5
Symblepharon	6
Sympathetic irritation	5
" ophthalmia	3
Synechiæ, anterior	2
" posterior	1
Trichiasis	10
Ulcer of cornea	60
" " " with hypopion	11
" " " with prolapse of iris	4
" " " traumatic	9
" " " " with hypopion	5

Ulcer serpens	5
Wound in ciliary region	13
" cornea	8
Tumor antrum with exophthalmus	1
Miscellaneous	13
Total	676

REPORT OF ONE HUNDRED AND FORTY-FOUR

Cataract Operations,

INCLUDING

ONE HUNDRED AND NINETEEN EXTRACTIONS FOR SENILE CATARACT PERFORMED AT THE INFIRMARY BY THE OPHTHALMIC STAFF DURING THE YEAR ENDING AUG. 31, 1890.

COMPILED BY FRANCIS P. SPRAGUE, M. D.

Of the above one hundred and forty-four operations, the accompanying tables show the following divisions: —

Method of Von Græfe	92
Simple extractions	3
Simple extractions with excision of a circular bit of iris	30
Suctions	10
Miscellaneous extractions	9

Of the 92 operations by the Græfe method, 86 were considered as senile cataracts, the age of forty being taken as the dividing line. The six cases excluded are under that age; and all made good recoveries, as the tables show. In the 86 cases vision was as follows: —

Vision	= 0.7	7	
"	= 0.6	2	
"	= 0.5	5	
"	= 0.4	8	
"	= 0.33+	2	
"	= 0.3	13	
"	= 0.25	4	
"	= 0.2	21	
"	= 0.16 +	1	
"	= 0.1	12	
Vision	= 0.06	2	
"	not taken, healed well	1	
"	= motion of hand	1	
"	= quantitative perception	2	
"	= perception	1	
"	= 0.0	1	
"	panophthalmitis	3	
			86

In the 3 cases of perception of light there is a prospect that an additional operation may improve. Case 84, where vision not taken had normal convalescence, but patient seized with dementia, and removed from house on thirteenth day. Case 20, where vision equalled motion of the hand, made a good recovery, but membranous opacities found in vitreous, which no doubt existed before operation. There remain 4 cases of absolute loss, a percentage of about 4½. Of these, two seemed due to traumatic influences. In case 30, patient interfered with healing by constantly pulling off bandage, and rubbing eye, and could not be controlled. Case 21, where panophthalmitis ensued, was unpromising for operation, but did well till the fifth day, when a blow upon the eye set up a destructive inflammation. Among the partial successes, cases 33 and 46, where vision was 0.06, showed, like case 20, evidences of choroidal trouble existing before operation. The same is true of case 5, though here the disease had not reached so far, and a vision of 0.2 obtained. There have been five cases where scoop was used to complete extraction. All of these made good recoveries, with vision varying from 0.1 upwards. The number of secondary operations has been eleven. Some points not mentioned in the tables to avoid constant repetition may be spoken of here. The section has universally been made upwards. Cocaine has been used in all except two cases, where ether was administered on account of nervousness and want of self-control on part of patient. The cocaine has apparently produced no ill effects. The operations have been divided, though unequally, among seven surgeons.

As regards antisepsis, the practice has varied. For example, three of the surgeons have used bichloride of mercury solutions, to cleanse eye for operation, one used Panas solution, two used boric acid, and one no disinfectant. The only point of unanimity was in the employment of sterilized

dressings. These are enclosed in tin boxes, and rendered aseptic by heat, and only opened when wanted for use. Of the cases of panophthalmitis, two occurred with use of boric acid, and one where no disinfectant. This last, No. 30, has already been alluded to, and seemed due to injury. The other two have no explanation given, except that in case 71 the patient, seventy years of age, was in poor health. The oldest patient was a man of eighty-nine years. He obtained vision of 0.4 forty-four days after operation. Another man, of eighty-eight, obtained vision of 0.3 in twenty-one days. In both cases examination was made without cylindrical glasses. In estimating above results, the small number of secondary operations should be borne in mind, the comparatively short time after extraction that the great majority of examinations were made, and especially the fact that cylindrical glasses were employed in only ten cases. The difference thus caused in results is often very great, as all operators know. The amount of unpromising material has been large. That many of these cases have received a fair amount of vision is no proof that the less fortunate ones should have succeeded. Between eyes in apparently the same condition there may exist tendencies to inflammation of varying amount. All cases that present themselves are operated on, if there seems to be a possibility of benefiting patient. In regard to the remaining operations, the simple extractions, with excision of a circular bit of iris, were done by one operator. The results thus far are encouraging. The miscellaneous extractions are exceptional cases, too few in number to warrant a separate classification, and are grouped together for sake of convenience. They all made good recoveries. The same may be said of the suction cases. These latter, with one exception, were traumatic.

STATISTICS OF CATARACT OPERATIONS PERFORMED AT THE MASSACHUSETTS CHARITABLE EYE AND EAR INFIRMARY FROM SEPT. 1, 1889, TO SEPT. 1, 1890.

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
1	Female. 75 Irish. Fair.	Senile. Mature. 1 year. Normal.	Sept. 10, 1889. Græfe extraction. Bandage removed Sept. 17. Healing normal. 13 days, V. = 0.2. Dec. 20, 1889, V. = 0.5.	V. = 0.5
2	Male. 55 Irish. Good.	Senile. 2½ years. Morgagnian. Normal.	Sept. 12, 1889. Græfe extraction. Healing normal. 11 days, V. = $\frac{5}{200}$. June 8, 1890, V. = < 0.7.	V. = < 0.7
3	Male. 69 Irish. Good.	Senile. 1 year. Normal.	Sept. 15, 1889. Græfe extraction. Healing normal. 13 days, V. = 0.1. Oct. 23, 1889, V. = 0.2.	V. = 0.2
4	Female. 30 Amer. Good.	2 years. Normal.	Sept. 15, 1889. Græfe extraction. Healing normal. 11 days, V. = 0.2. Nov. 13, 1889, V. = 0.3.	V. = 0.3
5	Female. 66 Amer. Good.	Senile. 1 year. Normal.	Sept. 18, 1889. Græfe extraction. Healing normal. Appearance of choroidal change near the nerve. 12 days. V. = 0.1. Oct. 9, 1889, V. = 0.2, with cylindrical glass.	V. = 0.2
6	Female. 71 Amer. Fair.	Senile. 2½ years. Normal.	Sept. 29, 1889. Græfe extraction. Patient very unruly. Bandage removed on eighth day. But slight injection. 27 days. Nov. 9, 1889, secondary operation on account of opaque capsule. Nov. 21, 1889, V. = 0.2.	V. = 0.2
7	Male. 70 Irish. Fair.	Senile. 2 years. Normal.	Oct. 3, 1889. Græfe extraction. Oct. 7, severe iritis. Some hypopion. Atropine, fomentations. 25 days. Blocked pupil. Oct. 28, 1889, secondary operation. Nov. 21, 1889, V. = quantitative perception of light.	V. = quantitative perception of light.
8	Male. 84 English. Fair.	Senile. Normal.	Oct. 5, 1889. Græfe extraction. Severe iritis. Atropine, fomentations 26 days. Secondary operation. Oct. 30, 1889, V. = quantitative perception of light.	V. = quantitative perception of light.

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
9	Female. 52 Irish. Fair.	Senile. 5 years. Projection good but pupil sluggish.	Oct. 8, 1889. Græfe extraction. From sudden movement of the eye, considerable loss of vitreous, before extraction of lens, which was removed in separate masses. A portion had to be left at outer angle of cut. Wound healed well. Swelling of remaining cortical, and at one time a fragment fell into anterior chamber, causing more irritation, but soon absorbed. 81 days.	V. = 0.1
10	Female. 66 Amer. Good.	Senile. 1½ years. Normal.	Oct. 11, 1889. Græfe extraction. Slight conjunctivitis. 23 days, V. = 0.1. May 27, 1890, V. = 0.4.	V. = 0.4
11	Female. 30 Amer. Good.	3 years. Normal.	Oct. 12, 1889. Græfe extraction. Healing normal. 12 days, V. = 0.3. Nov. 13, 1889, V. = 0.4.	V. = 0.4
12	Female. 49 Amer. Good.	Senile. 6 months ? Normal.	Oct. 15, 1889. Græfe extraction. Healing normal. 19 days, V. = 0.3. Nov. 26, 1889, V. = 0.7.	V. = 0.7
13	Female. 65 Amer. Fair.	Senile. 4 years. Normal.	Oct. 25, 1889. Græfe extraction. Iritis. 24 days, V. = 0.1. Nov. 27, 1889, V. = 0.2, with cylindrical glass.	V. = 0.2
14	Male. 25 Amer. Fair.	2 years. Normal.	Nov. 1, 1889. Græfe extraction. Healing normal. 18 days.	V. = 0.1
15	Female. 39 Irish. Fair.	2 years. Normal.	Nov. 3, 1889. Græfe extraction. Healing normal. 12 days, V. = 0.2. April 26, 1890, V. = 0.5.	V. = 0.5
16	Female. 50 Scotch. Good.	6 months ? Normal.	Nov. 13, 1889. Græfe extraction. Healing normal. 23 days, V. = 0.2. Dec. 17, 1889, V. = 0.2.	V. = 0.2
17	Male. 55 Irish. Fair.	Senile. 1 year.	Nov. 16, 1889. Græfe extraction. Healing normal. 13 days, V. = $\frac{5}{30}$. Dec. 13, 1889, V. = $\frac{5}{20}$.	V. = 0.25

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
18	Male. 70 Irish. Good.	Senile. 6 months ?	Nov. 16, 1889. Græfe extraction. Slight iritis. 37 days.	V. = 0.1
19	Male. 89 Amer. Fair.	Senile. 2 years. Normal.	Nov. 16, 1889. Græfe extraction. Healing normal. 14 days, V. = 0.1. Dec. 30, 1889, V. = 0.4.	V. = 0.4
20	Male. 60 Irish Good.	Senile. 1 year. Projection doubful. Post. synechia.	Nov. 29, 1889. Græfe extraction. Healing normal, but membranous opacities of vitreous. 17 days, V. = quantitative perception of light. Feb. 5, 1890, V. = motion of hand.	V. = motion of hand.
21	Female. 63 Irish. Fair.	Senile. 4 years. Projection good, but eye soft, and tremulous iris.	Dec. 2, 1889. Græfe extraction. Lens came away in capsule. Operation normal in all other respects. Good-sized nucleus floating in tough capsule, and some soft cortical. Eye to all appearances doing well till Dec. 7, when patient struck it against corner of table. Dec. 8, Œdema, hazy cornea. Panophthalmitis followed.	Panophthalmitis.
22	Female. 51 British Prov'c's Fair.	Senile. 1 year. Normal.	Dec. 3, 1889. Græfe extraction. Slight catarrhal discharge first few days and some iritis, leaving post. synechia. 16 days, V. = 0.5. Jan. 16, 1890, V. = 0.7.	V. = 0.7
23	Male. 67 Amer. Good.	Senile. 2 years. Normal.	Dec. 12, 1889. Græfe extraction. Healing normal. 29 days, V. = 0.2. April 16, 1890, vision reduced one half. June 6, 1890, secondary operation. 12 days.	V. = 0.3
24	Male. 64 Amer. Good.	Senile. 2 years. Normal.	Dec. 12, 1889. Græfe extraction. Healing normal. 14 days. With cylindrical glass.	V. = 0.2
25	Male. 49 Irish. Fair.	Senile. 6 months ? Normal.	Dec. 12, 1889. Græfe extraction. Dec. 14, slight discharge from both eyes. Dec. 16, discharge somewhat increased. No pain or swelling of lids. Dec. 19, wound healed. Slight conjunctival redness, much cortical in pupil. Dec. 23, spontaneous rupture of posterior capsule took place. 20 days, V. = 0.2. Feb. 27, 1890, V. = 0.7.	V. = 0.7

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
26	Male. 51 Irish. Fair.	Senile. 6 years. Projection good, but discolored, and tremulous iris.	Dec. 16, 1889. Græfe extraction. Slight escape of fluid vitreous. Scoop used. Lens dark. Healing normal. 14 days.	V. = 0.1
27	Female. 75 Amer. Fair.	Senile. 2 years. Normal.	Dec. 25, 1889. Græfe extraction. While making cut, patient moved head violently, but no vitreous lost. Dec. 29, vomiting occurred from use of cathartic, but no bad result followed. 23 days.	V. = 0.2
28	Male. 67 Swedish Fair.	Senile. Small nucleus and liquid cortical. Projection fails outwards.	Jan. 9, 1890. Græfe extraction. Healing normal. 13 days.	V. = 0.2
29	Male. 56 Irish. Fair.	Senile. 1 year. Normal.	Jan. 9, 1890. Græfe extraction. Healing normal. 11 days, V. = 0.2. Feb. 5, 1890, V. = 0.5. With cylindrical glass.	V. = 0.5
30	Male. 66 Scotch. Good.	Senile. 1 year. Normal.	Jan. 16, 1890. Græfe extraction. Operation normal. Healing interfered with by patient, who cannot be controlled, pulls off bandage repeatedly, and rubs eye. Discharged at his own request. Wound still open and pupil filled with yellowish material. 21 days.	V. = 0.0
31	Female. 74 Can'd'n. Fair.	Senile. 8 years. Normal.	Jan. 16, 1890. Græfe extraction. Healing normal. 19 days, V. = 0.1. March 11, 1890, V. = $\frac{5}{30}$.	V. = 0.16 +
32	Male. 72 Amer. Good.	Senile. 3 years. Normal.	Jan. 18, 1890. Græfe extraction. Healing normal. 17 days, V. = 0.6. Feb. 24, 1890, V. = 0.7, with cylindrical glass.	V. = 0.7
33	Female. 69 Amer. Fair.	Senile. 9 years. Normal.	Jan. 18, 1890. Græfe extraction. Lens very hard, came away piecemeal. Large piece of tough capsule removed by forceps. Patient says sight has always been poor in this eye, and has been blind with cataract for 9 years. Healing normal. Pupil left clear. 19 days, $\frac{3}{50}$.	V. = 0.06

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
34	Male. 56 Amer. Fair.	Senile. 1 year. Normal.	Jan. 24, 1890. Græfe extraction. Healing normal. 11 days, V. = 0.1. March 6, 1890, V. = 0.2.	V. = 0.2
35	Female. 75 Irish. Good.	Senile. 1 year. Normal.	Jan. 27, 1890. Græfe extraction. Operation normal, clear pupil left. Wound healed well, but pupil blocked. 25 days, V. not taken. July 7, 1890, secondary operation. 12 days later, V. = 0.4.	V. = 0.4
36	Female. 81 Amer. Fair.	Senile. 1 year. Normal.	Jan. 27, 1890. Græfe extraction. Much soft cortical left. Healing normal. 19 days.	V. = 0.2
37	Male. 81 British Prov. Fair.	Senile. 4 years. Normal.	Jan. 27, 1890. Græfe extraction. Healing retarded by mild iritis, accompanied with considerable conjunctivitis. 40 days.	V. = 0.1
38	Male. 42 Irish. Good.	Senile. 1 year. Normal.	Feb. 20, 1890. Græfe extraction. Healing normal. 16 days, V. = 0.2. March 22, 1890, V. = 0.3.	V. = 0.3
39	Female. 84 Amer. Fair.	Senile. 1 year. Projection poor up and in.	Feb. 24, 1890. Græfe extraction. March 2. Attack of pain, but healing favorable. 15 days, V. = $\frac{5}{30}$. April 8, 1890, V. = $\frac{5}{20}$.	V. = 0.25
40	Female. 22 Amer. Good.	1 year. Normal.	March 7, 1890. Græfe extraction. Healing normal. 15 days, V. = 0.3. April 5, 1890, V. = 0.4.	V. = 0.4
41	Female. 50 Amer. Good.	Senile. 7 years. Normal.	March 7, 1890. Græfe extraction. Lens removed by scoop. Some loss of vitreous, which supposed to be fluid, from condition of other eye. Healing normal. Date of examination not given.	V. = < 0.2
42	Male. 27 Amer. Good.	2 years. Normal.	March 7, 1890. Græfe extraction. Healing normal. 18 days.	V. = 0.1

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
43	Female. 56 Irish. Poor.	Senile. 4 years. Normal.	March 11, 1890. Græfe extraction. Healing normal. 18 days, V. = $\frac{5}{30}$. July 31, 1890, V. = < $\frac{5}{15}$.	V. = 0.33 +
44	Male. 70 Amer. Good.	Senile. 1 year. Normal.	March 19, 1890. Græfe extraction. Healing normal. 12 days.	V. = 0.3.
45	Male. 78 Irish. Good.	Senile. 1 year. Normal, but posterior synechia.	March 22, 1890. Græfe extraction. Small amount of vitreous escaped. Mild iritis, caused by remnants of lens material, which showed in anterior chamber, followed later by severe conjunctivitis, which, slow in yielding to treatment. 24 days.	V. = 0.2
46	Male. 63 Amer. Good.	Senile. 2 years. Projection poor. Post. synechia.	March 30, 1890. Græfe extraction. Healing slow. Some iritis. Pupil left blocked. No central projection, probable iridochoroiditis. 24 days.	V. = 0.06
47	Female. 60 Irish. Good.	Senile. 1 year. Normal.	April 16, 1890. Græfe extraction. Lens escaped below; it was easily pressed up, but could not be removed, escaping above. A hook was introduced under upper lip of wound and extraction made, with but little loss of vitreous. Healing normal, except for some slight irritation. No iritis. June 11, 1890, V. = 0.2.	V. = 0.2
48	Male. 71 Irish. Fair.	Senile. 12 years. Good.	April 23, 1890. Græfe extraction. Healing normal, in spite of patient's disobedience of all rules. 28 days.	V. = 0.2
49	Male. 70 Irish. Good.	Senile. 1 year. Good.	April 26, 1890. Græfe extraction. Healing normal, except for attack of conjunctivitis, which seemed prevalent at the time in the house. 31 days, V. = < 0.2. June 14, 1890, V. = 0.2.	V. = 0.2
50	Female. 58 Irish. Good.	Senile. 1¼ years.	April 26, 1890. Græfe extraction. Healing normal. 20 days, V = 0.1. July 23, 1890, V. = $\frac{5}{15}$.	V. = 0.33 +

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
51	Male. 45 British. Guiana. Good.	Senile. 1 year. Good.	May 2, 1890. Græfe extraction. A very prominent globe, with some spasm of lids. Healing normal. 18 days.	V. = 0.3
52	Male. 77 Irish. Good.	Senile. 1½ years. Good.	May 2, 1890. Græfe extraction. Healing normal, but some iritis. June 8, 1890, V. = < 0.3.	V. = < 0 3
53	Female. 60 Irish. Good.	Senile. 1 year. Good.	May 9, 1890. Græfe extraction. Small cut, for fear of fluid vitreous. Lens in part extracted by Arlt's double hook, remainder by pressure. Wound healed well, but conjunctivitis followed. 32 days.	V. = 0.2
54	Male. 72 Irish. Good.	Senile. 4 years. Good.	May 9, 1890. Græfe extraction. Healing normal. 18 days.	V. = 0.3
55	Male. 70 Amer. Good.	Senile. 2 years. Good.	May 21, 1890. Græfe extraction. Healing normal. 18 days.	V. = 0.1
56	Male. 88 Amer. Good.	Senile. 2 years. Projection doubtful. Post. synechia.	May 23, 1890. Græfe extraction. Healing normal. 21 days.	V. = < 0.3
57	Male. 72 Amer. Good.	Senile. 3 years. Projection good. Post. synechia.	May 23, 1890. Græfe extraction. Healing normal. 16 days, V. = < 0.2. June 23, 1890, V. = 0.2.	V. = 0.2
58	Female. 60 Irish. Good.	Senile. 6 years. Good.	May 28, 1890. Græfe extraction. Healing normal. 27 days, V. = 0.4. July 7, 1890, V. = 0.5.	V. = 0.5
59	Male. 72 Portug'e Fair.	Senile. 2½ years. Good.	May 31, 1890. Græfe extraction. Healing normal. Considerable capsule in area of pupil. 20 days, V. = 0.3. Secondary operation, day after. June 25, 1890, V. = 0.4.	V. = < 0.4

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
60	Female. 50 Irish. Good.	Senile. 4 years. Good.	June 5, 1890. Græfe extraction. Healing normal. 27 days, V. = 0.3. July 11, 1890, V. = 0.2, with cylindrical glass.	V. = 0.2
61	Male. 54 Amer. Good.	Senile. 4 years. Good.	June 5, 1890. Græfe extraction. Healing normal. 18 days.	V. = 0.4
62	Male. 51 Irish. Good.	Senile. 1 year. Good.	June 7, 1890. Græfe extraction begun. Vitreous presented before capsule ruptured, and eye closed. Cut healed favorably, and, July 10, 1890, extraction completed by scoop. 14 days.	V. = 0.25
63	Male. 65 Amer. Good.	Senile. 1 year. Good.	June 7, 1890. Græfe extraction. Considerable soft cortical. Wound united on seventh day, but reopened on tenth day. Patient very restless and using eye; iris prolapsed; on nineteenth day prolapse excised. July 16, 1890, V. = 0.1.	V. = 0.1
64	Male. 72 Amer. Good.	Senile. 1 year. Good.	June 7, 1890. Græfe extraction. Healing normal. 19 days, V. = 0.4. July 9, 1890, V. = 0.6, with cylindrical glass.	V. = 0.6
65	Female. 64 Irish. Good.	Senile. 2 years. Good.	June 7, 1890. Græfe extraction. Healing normal. 10 days.	V. = 0.25
66	Male. 74 Irish. Good.	Senile. 2 years. Good.	June 14, 1890. Græfe extraction. Healing normal. 30 days.	V. = 0.3
67	Male. 67 Irish. Good.	Senile. 1 year. Good.	June 19, 1890. Græfe extraction. Suppurative iritis ensued third day, resulting in blocked pupil and opaque cornea at time of discharge.	Panophthalmitis.
68	Male. 63 Irish. Good.	Senile. 2 years. Good.	June 19, 1890. Græfe extraction. Healing normal. 21 days.	V. = 0.3

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
69	Male. 71 Amer. Good.	Senile. 4 years. Good.	June 21, 1890. Græfe extraction. Healing normal. 19 days.	V. = 0.7
70	Female. 50 Irish. Good.	Senile. 15 years. Good.	June 25, 1890. Græfe extraction. Iritis. Opaque capsule left in area of pupil. 16 days, V. = $\frac{3}{60}$. Secondary operation. July 29, 1890, V. = < 0.2.	V. = < 0.2
71	Male. 70 English. Poor.	Senile. 1 year.	July 2, 1890. Græfe extraction. Purulent iritis on second day.	Panophthalmitis.
72	Male. 74 Amer. Good.	Senile. 10 years. Good.	July 5, 1890. Græfe extraction. Healing normal. 18 days, V. = 0.1. Aug. 6, 1890, V. = 0.1.	V. = 0.1
73	Male. 62 Irish. Good.	Senile. 1 year. Good.	July 8, 1800. Græfe extraction. Healing normal. 19 days, V. = < 0.2. Aug. 4, 1890, V. = < 0.5.	V. = < 0.5
74	Female. 86 Amer. Good.	Senile. 8 years. Good.	July 9, 1890. Græfe extraction. Healing normal, except for slight catarrh. 28 days.	V. = < 0.2
75	Male. 67 Irish. Good.	Senile. 2 years. Good.	July 10, 1890. Græfe extraction. Atropine instilled after first day. Healing normal, but opacity of capsule. 21 days later, secondary operation with Knapp's knife. Aug. 15, 1890, V. = 0.3.	V. = 0.3
76	Female. 71 Irish. Good.	Senile. 1 year. Normal.	July 12, 1890. Græfe extraction. Anterior chamber not re-established for two days. After this atropine once daily. Opacity of capsule left 9 days later. Secondary operation with Knapp's knife. July 29, V. = 0.3.	V. = 0.3
77	Male. 64 Irish. Good.	Senile. 2 years. Good.	July 14, 1890. Græfe extraction. Healing normal. 16 days, V. = < 0.2. Aug. 30, 1890, V. = < 0.4.	V. = < 0.4

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
78	Male. 55 German. Good.	Senile. 2 years. Good.	July 16, 1890. Græfe extraction. Fluid vitreous presented before iridectomy. Operation completed without much loss of vitreous. Some cortical left in pupil. Patient struck eye on second day and reopened wound; recovery, however, good. Patient eloped. Sept. 10, 1890, V. = > 0.4, with cylindrical glass.	V. = > 0.4
79	Male. 70 Italian. Good.	Senile. 2 years. Good.	July 19, 1890. Græfe extraction. Loss of vitreous. Eye healed well but pupil blocked. Patient left house on account of illness, and vision not taken, but estimated to be capable of improvement by secondary operation.	V. = Perception of light.
80	Male. 70 Irish. Good.	Senile. 3 years. Good.	July 19, 1890. Græfe extraction. Ether given on account of want of self-control on part of patient. Healing normal. 18 days.	V. = 0.3
81	Male. 73 Can'd'n. Good.	Senile. 1 year. Good.	July 21, 1890. Græfe extraction. Healing normal. Bandage removed on seventh day. Atropine used. No injection of globe. 24 days, V. not taken by oversight, but estimated at 0.1.	Estimated V. = 0.1
82	Male. 65 Irish. Good.	Senile. 1 year. Good.	July 23, 1890. Græfe extraction. Healing normal. Some opacity of capsule 15 days. Secondary operation with Knapp's knife. Aug. 15, 1890, V. = 0.4.	V. = 0.4
83	Male. 54. Irish. Good.	Senile. 2 years. Good.	July 24, 1890. Græfe extraction. Healing normal. Some cortical remaining. 20 days.	V. = 0.2
84	Female. 77 Amer. Good.	Senile. 2 years. Good.	July 25, 1890. Græfe extraction. Healing normal. Eye in good condition, but patient taken with dementia and removed without vision being taken. 13 days.	Not taken.
85	Female. 70 Scotch. Good.	Senile. 3 years. Good.	July 29, 1890. Græfe extraction. Healing normal. 17 days.	V. = 0.3

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
86	Male. 73 English. Good.	Senile. 3 years. Good, but tremulous iris.	Aug. 8, 1890. Græfe extraction. Iris tremulous and lens dislocated. Vitreous presented and lens removed by scoop. 14 days. Cylindrical glass.	V. = 0.1
87	Male. 59 Irish. Fair.	Senile. 1 year. Good.	Aug. 8, 1890. Græfe extraction. Iris tremulous. Lens removed by scoop. 11 days, V. = 0.2. Aug. 27, 1890, V. = < 0.5.	V. = < 0.5
88	Female. 81 Amer. Good.	Senile. Good.	Aug. 9, 1890. Græfe extraction. Cataract not fully mature, but operation done on account of blindness in other eye, which has also a cataract. Healing normal. Some cortical left, which quickly absorbed, but opaque capsule. Aug. 20, 1890, secondary operation with needle. Sept. 4, 1890, secondary operation with Knapp's knife. Sept. 8, 1890, V. = 0.2.	V. = 0.2
89	Female. 78 Irish. Good.	Senile. 1 year. Good but ant. synechiæ.	Aug. 10, 1890. Græfe extraction. Healing normal, but anterior synechia, and central opacity of cornea. 12 days, V. = $\frac{4}{50}$. Sept. 4, 1890, V. = $\frac{5}{50}$.	V. = 0.1
90	Male. 67 English. Good.	Senile. 1 year. Good.	Aug. 22, 1890. Græfe extraction. Ether given on account of patient's want of self-control. Healing normal. 25 days.	V. = 0.1
91	Male. 66 Irish. Good.	Senile. 2 years. Good.	Aug. 26, 1890. Græfe extraction. Healing progressing favorably when patient struck eye, causing hemorrhage into anterior chamber. This gradually absorbed. 29 days.	V. = 0.1
92	Female. 65 Amer. Fair.	Senile. 8 years. Good.	Aug. 28, 1890. Græfe extraction. Healing normal, but some opacity of posterior capsule. 21 days, cylindrical glass.	V. = 0.7

SIMPLE EXTRACTIONS.

1	Female. 59 New Brunswick. Good.	Senile. 1½ years. Normal.	Oct. 9, 1889. Simple extraction. Healing normal. 16 days.	V. = 0.2

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
2	Male. 70 Irish. Good.	Senile. 6 months? Good.	June 25, 1890. Simple extraction. Healed with cystoid cicatrix, which included iris tissue. 36 days.	V. = 0.1
3	Male. 55 Irish. Good.	Senile. Good.	July 31, 1890. Simple extraction. Pain on third day, and iris found prolapsed, and considerable sero-purulent discharge. Iris discolored. Anterior chamber deep. 9 days.	Perception of light?

SIMPLE EXTRACTION, WITH EXCISION OF A CIRCULAR BIT OF IRIS.

1	Male. 54 Can'd'n. Good.	Senile. 1 year. Normal.	Sept. 3, 1889. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil dilates. 11 days.	V. = 0.1
2	Male. 69 German. Good.	Senile. 4 years. Normal.	Sept. 6, 1889. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil dilates. 15 days, V. = 0.1. Secondary operation, Nov. 15, 1889. Nov. 18, 1889, V. = 0.6. Cylindrical glass.	V. = 0.6
3	Male. 73 Amer. Fair.	Senile. 8 years. Normal.	Sept. 6, 1889. Simple extraction, with excision of small circular bit of iris. Pupil small, not influenced by cocaine. Healing normal. Pupil dilates to atropine. 15 days, with cylindrical glass, V. = < 0.3. Oct. 3, 1889, with spherical glass, V. = 0.2.	V. = 0.2
4	Male. 59 Amer. Good.	Senile. 3 years. Normal.	Sept. 10, 1889. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil dilates fully. 17 days, V. = 0.1. Nov. 29, 1889, V. = < 0.8.	V. = < 0.8
5	Male. 49 German. Good.	Senile. 3 years. Normal.	Sept. 18, 1889. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil dilates fully. 15 days, V. = 0.2. Oct. 3, 1889, V. = 0.5, with cylindrical glass.	V. = 0.5
6	Female. 70 Amer. Fair.	Senile. 7 years. Normal.	Oct. 9, 1889. Simple extraction, with excision of small circular bit of iris Healing normal. Pupil dilates. Some opaque capsule. 16 days, V. = 0.1. Dec. 4, 1889, V. = 0.6. Cylindrical glass.	V. = 0.6

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
7	Male. 70 N. Scot. Good.	Senile. 2 years. Normal.	Oct. 12, 1889. Simple extraction, with excision of small circular bit of iris. 14 days, V. = 0.3. As some opacity of capsule existed, and patient lived at a distance, secondary operation, Nov. 6, 1889. On Nov. 24, V. = 0.5. Patient returned March 11, 1890, having had an attack of iritis, and V. = 0.2, with cylindrical glass.	V. = 0.2
8	Male. 70 English. Fair, but some rheumatism.	Senile. 4 years. Normal, but posterior synechia.	Oct. 13, 1889. Simple extraction, with excision of small circular bit of iris. Wound healed well, but pupil irregularly dilated, owing to posterior synechia. Patient has vascular keratitis at upper part of cornea. Atropine irritates. 45 days, V. = 0.5. At this date patient treated for granulations and some remaining keratitis. March 31, 1890, V. = $<$ 0.6.	V. $\overline{=}$ 0.6
9	Female. 50 Irish. Good	Senile. 6 months ? Normal.	Nov. 13, 1889. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil dilates fully. 19 days, V. = $\frac{5}{20}$. Dec. 20, 1889, V. = $\frac{5}{15}$.	V. = 0.33 +
10	Male. 59 Amer. Fair.	Senile. 4 years. Normal.	Nov. 16, 1889. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil clear and dilated. 14 days, V. = 0.6. Dec. 23, 1889, V. = 0.7.	V. = 0.7
11	Male. 69 German. Good.	Senile. 1 year. Normal.	Nov. 19, 1889. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil clear, and well dilated. 11 days, V. = 0.1. Later, date not given, V. = 0.5.	V. = 0.5
12	Male. 63 Scotch. Poor.	Senile. 3 years. Projection good.	Nov. 20, 1889. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil well dilated. 15 days, V. = 0.3. Jan. 6, 1890, V. = 0.5, with cylindrical glass.	V. = 0.5
13	Male. 55 Amer. Good.	Senile. 2½ years. Normal.	Nov. 25, 1889. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil well dilated. 21 days, V. = 0.3. June 1, 1890, V. = 0.9, with cylindrical glass.	V. = 0.9

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
14	Male. 63 Irish. Good.	Senile. 1 year.	March 8, 1890. Simple extraction, with excision of small circular bit of iris. Healing normal. 18 days, V. = $\frac{5}{20}$. April 9, 1890, V. = $\frac{5}{6}$, with cylindrical glass.	V. = 0.83 +
15	Male. 65 Irish. Fair.	Senile. 2 years. Normal.	March 10, 1890. Simple extraction, with excision of small circular bit of iris. Healing normal, but attack of iritis in other eye caused retention of patient till May 24, 1890.	V. = 0.5
16	Male. 63 Irish. Good.	Senile. 1 year. Normal.	March 14, 1890. Simple extraction, with excision of small circular bit of iris. Healing normal, but some opaque capsule. April 19, 1890, secondary operation. May 9, 1890, V. = 0.3. Sept. 5, 1890, V. = 0.1.	V. = 0.1
17	Male. 67 Irish. Good.	Senile. 1 year. Normal.	March 19, 1890. Simple extraction, with excision of small circular bit of iris. Patient very unruly about bandage, which had to be replaced six or seven times a day. On third day, small prolapse of iris, about the size of a pin's head. This excised the same day. 28 days, V. = 0.4. June 8, 1890, V. = 0.4.	V. = 0.4
18	Female. 55 Amer. Fair.	Senile. 1 year. Normal.	March 23, 1890. Simple extraction, with excision of small circular bit of iris. Healing normal, but difficulty in keeping patient quiet. Delirious at times. Pupil well dilated. 18 days, V. = < 0.3. June 2, 1890, V. = 0.4.	V. = 0.4
19	Female. 65 Irish. Good.	Senile. 1 year. Normal.	March 23, 1890. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil well dilated. 26 days, V. = 0.1. Capsule left wrinkled, and secondary operation with Knapp's knife. June 25, 1890, V. = 0.3.	V. = 0.3
20	Female. 55 Irish. Good.	Senile. 8 months ? Normal.	April 3, 1890. Simple extraction, with excision of small circular bit of iris. Wound healed well, though iris bulging somewhat upwards, but no direct incarceration. Pupil dilates irregularly. 32 days, V. = 0.1. Secondary operation with Knapp's knife. July 3, 1890, V. = < 0.3.	V. = < 0.3

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
21	Male. 72 Amer.	Senile. 2 years. Projection good, but posterior synechia.	April 3, 1890. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil dilated. 18 days, V. = 0.1. April 30, 1890, V. = $<$0.5, with cylindrical glass.	V. = $<$ 0.5
22	Male. 65 Irish. Fair.	Senile. 2 years. Normal.	April 5, 1890. Simple extraction, with excision of small circular bit of iris. Iritis followed, with blocked pupil. Iridectomy done, May 7, 1890, but opening closed. General condition of eye good. Projection perfect. To return for secondary operation, May 24, 1890. Counts fingers at 2 feet.	Counts fingers at 2 feet.
23	Male. 72 Amer. Fair, but rheumatic.	Senile. 2 years. Normal.	April 9, 1890. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil dilated. 15 days.	V. = 0.1
24	Female. 75 New Brunswick. Fair.	Senile. 2 years. Good.	April 23, 1890. Simple extraction, with excision of small circular bit of iris. Wound slow in healing. Patient constantly interfered with bandage. Pupil dilates somewhat, but small. May 21, 1890, secondary operation with Knapp's knife. May 26, 1890, V. = $\frac{5}{6}$.	V. = 0.83 +
25	Female. 73 Amer. Good.	Senile. 1 year. Good.	April 24, 1890. Simple extraction, with excision of small circular bit of iris. Healing normal, though eye a little irritable. Pupil dilated. 22 days.	V. = 0.1
26	Male. 52 Amer. Good.	Senile. 1 year. Good.	April 26, 1890. Simple extraction. with excision of small circular bit of iris. Healing normal. Pupil dilates. 21 days, V. = $<$ 0.3. June 3, 1890, V. = 0.3.	V. = 0.3
27	Female. 65 Amer. Good.	Senile. 6 years. Good.	May 8, 1890. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil dilated, but capsule somewhat opaque. 17 days.	V. = $<$ 0.2

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
28	Male. 55 Irish. Good.	Senile. 2 years, Good.	May 31, 1890. Simple extraction, with excision of small circular bit of iris. Healing normal. Pupil dilates well. 15 days, V. = $\frac{5}{15}$. July 16, 1890, V. = 0.5.	V. = 0 5
29	Female. 70 Irish. Good.	Senile. 2 years. Good.	June 5, 1890. Simple extraction, with excision of small circular bit of iris. Healing normal. 14 days, V. = 0.1. July 1, 1890, V. = 0.3.	V. = 0.3
30	Male. 70 Irish. Good.	Senile. 1 year. Good.	June 5, 1890. Simple extraction, with excision of small circular bit of iris. Small amount of vitreous lost in trying to remove opaque capsule. Healing normal. 23 days.	V. = < 0.4

MISCELLANEOUS EXTRACTIONS.

1	Female. 65 Irish.	Dislocated lens in anterior chamber. 14 years.	Oct. 10, 1889. Lens removed by cut in lower corneal margin. Eye healed well. 34 days.	Not taken.
2	Male. 18 Amer. Good.	Congenital. Normal.	Dec. 16, 1889. Græfe extraction. Healing normal. 15 days.	V. = 0.2
3	Male. 34 English. Fair.	Semi-solid. Large failure of projection. Supposed separation of retina.	Jan. 6, 1890. Græfe extraction Operation at request of patient. Large amount of semi-solid lens matter removed. Tough opaque capsule removed by forceps, leaving clear pupil. No vitreous lost. Normal recovery. Ophthalmoscope showed nearly universal separation of retina. 9 days.	Perception of light out and down.
4	Male. 54 Irish. Good.	Senile. 1 year. Normal.	Jan. 9, 1890. Linear extraction. Cut made with triangular knife. Lens removed piecemeal. Healing normal. 10 days.	V. = 0.6
5	Male. 33 Irish. Good.	Traumatic. 4 months. Normal.	Feb. 6, 1890. Græfe extraction. Lens soft. Healing normal. 11 days.	V. = 0.2

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
6	Male. 38 Amer.	Query, if traumatic or congenital.	March 25, 1890. Græfe extraction. Healing normal. 10 days.	V. = < 0.4
7	Female. 47 Amer. Good.	15 years. Good.	July 14, 1890. Extraction through previous iridectomy downwards made in the past for blocked pupil. Healing normal. Some opaque capsule left in pupil. 25 days.	V. = 0.1
8	Male. 44 Amer.	Traumatic. 3 months.	July 23. Simple extraction. Healing normal. Pupil left round, and movable. 10 days.	V. = 0.2
9	Female. 45 Irish. Good.	Traumatic. Dislocated lens. 3 months. Good.	Aug. 18, 1890. Græfe extraction. Lens removed by scoop. Moderate loss of vitreous. Healing normal. 18 days.	V. = 0.1

SUCTION.

1	Male. 26 Swed. Good.	Traumatic. 7 months. Normal.	March 22, 1890. Suction. Healing normal. 12 days. April 4, 1890, with + 11, and stenopaic slit. V. = 0.6.	V. = 0.6
2	Male. 11 Irish. Good.	Traumatic. 2 months. Normal, but posterior synechia.	April 2, 1890. Suction. Healing normal. 8 days.	V. = < 0.6
3	Male. 36 Scotch. Good.	Traumatic. 10 days. Good	April 23, 1890. Suction. Large cut existing in centre of cornea. Healing normal. 9 days $\frac{1}{60}$.	V. = 0.016 +
4	Male. 29 Amer. Good.	Traumatic. 1 week. Good, but posterior synechia.	June 18, 1890. Suction. Wound existing at border of cornea. Healing normal. 10 days.	V. = 0.2
5	Male. 7 Amer. Good.	Congenital. Good	July 2, 1890. Suction. Healing normal. Some opaque capsule left, for which secondary operation with Knapp's knife. 16 days.	Not taken.

No.	Sex. Age. Nation. Health.	Quality and Duration of Cataract. Functional Examination.	Operation. Anæsthesia. Healing Process. Remarks. Duration of Treatment.	Vision.
6	Male. 5 Amer. Good.	Traumatic. 3 weeks. Good.	Aug. 7, 1890. Suction. Wound of cornea and prolapse of iris from injury. Operation done on account of swelling of lens. About half of lens substance removed. Healing normal. Iridectomy performed Sept. 17, 1890. On Sept. 27, 1890, counts fingers.	Counts fingers at two metres.
7	Male. 23 Italian. Good.	Traumatic. 4 weeks. Good.	Aug. 13, 1890. Suction. Injury from powder. Healing normal.	V. = 0.2
8	Male. Swed. Good.	Traumatic. 4 weeks. Good.	Aug. 17, 1890. Suction. Healing normal. Sept. 5, 1890. Secondary operation for opaque capsule. Sept. 20, 1890, V. = 02.	V. = 0.2
9	Male. 38 Amer. Good.	Traumatic. 3 months. Good.	Aug. 20, 1890. Suction. Healing normal. 19 days.	V. = 0.3
10	Male. 38 Irish. Good.	Traumatic.	Aug. 22, 1890. Suction Healing normal. 5 days. Sept. 30, 1890, V. = 1.	V. = 1

EAR DEPARTMENT.

SUBJOINED is the Statistical Report of the Ear Department of the Infirmary. Reference to the total numbers of patients applying for treatment during the year will show the amount of work demanded of the staff, but a fuller appreciation of their labors is obtained by the consideration of several items, among which are the number of working days and the time daily allowed for the work. From the 305 days in the year is given an average of 14 new patients, and with those renewing visits an average of 53 "old" cases, making in all a daily average attendance of 67. The largest number of patients seen in any one day was 120; the smallest number, 36.

These figures represent only the out-patient service, and take no account of the indoor and operative cases. The house-service has always been unsatisfactory on account of the lack of suitable isolating wards and such accommodations as are needed for the more or less severe surgical cases daily seen. A knowledge of such needs prevents the admission of many patients to the hospital who are obliged to be kept upon their feet and sent to their homes, when, were the circumstances different, much distress and discomfort would be prevented.

It is a fact noticeable to the casual visitor to our clinics, that many sufferers with really serious ear disease must be treated as out-patients, and allowed to bear the daily wear and tear of travel, which is very considerable while one is suffering with an acutely-inflamed ear. While much is being

done in the improving of methods of treatment so that the hours of actual suffering are lessened, there still remain other ways and means, such as the rest and quiet which a hospital affords.

Ear patients require quietness and rest almost as much as the patient with disturbance of the mind, and the isolation of our patients is sometimes imperatively demanded. We shield inflamed eyes from the glare of bright lights; we ought to relieve the ears of sounds which are distressing.

The proposed addition, so generously provided by the managers, will supply our present wants in this respect.

E. D. SPEAR, M. D.,
for the Board of Aural Surgeons.

STATISTICS OF DISEASES OF EAR PATIENTS.

Oct. 1, 1889, to Oct. 1, 1890.

Morbi Auris Externæ.

Auriculæ.

	Males.			Females.		
	R.	B.	L.	R.	B.	L.
Dermatitis traumatica	3	0	1	0	0	2
Eczema papulosum	8	0	2	3	0	1
" pustulosum	0	0	2	0	0	1
" squamosum	10	0	3	6	0	15
Herpes zoster	0	0	1	0	0	2
Abscessus	4	0	0	1	0	0
Fissura lobuli	0	0	0	0	0	1
Hæmatoma idiopathica	0	0	0	0	0	1
Deformitates.						
Polyotia	0	0	1	0	0	1
Neoplasmata.						
Fibroma	1	0	0	0	0	1
Meatus.						
Accumulatio ceruminis	65	80	112	84	32	56
Inflammationes.						
Abscessus	2	1	10	6	3	5
Otitis externa follicularis vel circumscripta	6	5	9	4	2	6
Otitis externa acuta	4	1	4	6	8	5
" " chronica	1	0	3	4	2	1
" " desquamativa	4	1	2	2	1	4
Pruritus	3	0	1	2	1	
Verruca	1	0	0	1	0	

Corpora adventitia.

	Males.			Females.		
	R.	B.	L.	R.	B.	L.
Animalis	1	0	2	1	0	
Inanimalis	5	0	4	4	4	

Deformitates.

Atresia congenita	1	0	0	0	1
Exostosis circumscripta	2	0	3	0	1
Hyperostosis circumscripta	1	0	0	0	1
Trauma directa	2	0	1	0	2
" indirecta	0	0	0	0	0

Morbi Auris Mediæ.

Membranæ Tympani.

Trauma directa, ecchymosis	1	0	0	0	0	1
" " perforatio	0	2	1	1	0	0
" " ruptura	1	1	0	0	0	1
" indirecta, ex ictu aërio						

Tympani, Tubæ Eustachii, et Mastoidei.

Otitis catarrhalis mucosa acuta	20	43	23	13	24	18
" " " chronica	80	110	19	40	30	23
" " serosa acuta	23	10	8	4	8	5
" " " chronica	12	5	9	5	6	4
" " " ex tuba	1	0	5	2	0	1
" " adhæsiva	25	13	34	7	10	15
" " " ex secernente,	12	29	15	8	19	21
" " " insidiosa	7	15	9	11	20	7
" " " cum morbo labyrinthi	1	3	0	1	2	1
Otitis catarrhalis adhæsiva sine morbo labyrinthi	0	4	1	2	1	0
Otitis catarrhalis secernens	8	5	4	6	4	6
Otitis media acuta simplex	64	21	34	26	18	15
" " " cum perforatione	21	8	8	9	4	12
" " " " bulla	3	0	2	2	0	1
" " suppurativa, acuta	6	3	8	4	1	5
" " " chronica	26	22	14	11	9	7
Otitis media suppurativa chronica cum perforatione membranæ flaccidæ	3	1	5	2	1	0

	Males.			Females.		
	R.	B.	L.	R.	B.	L.
Otitis media suppurativa chronica cum carie meatus	1	0	2	2	0	1
Otitis media suppurativa chronica cum carie mastoidea	4	0	2	3	0	2
Otitis media suppurativa chronica cum granulatione meatus	16	13	14	25	3	7
Otitis media chronica cum granulatione membranæ tympani	8	3	5	10	6	4
Otitis media suppurativa chronica cum granulatione tympani	4	3	5	6	2	4
Otitis media suppurativa chronica cum exostose meatus	1	0	1	0	0	1
Otitis media suppurativa chronica cum polypo tympani	20	0	22	20	0	23
Effectus otitidis mediæ acutæ	3	1	0	6	2	3
Effectus otitidis mediæ suppurativæ cum perforatione	18	6	12	15	3	13
Effectus otitidis mediæ suppurativæ cum perforatione conglutinata	11	4	10	6	4	10

Neuroses Auris Mediæ.

Sensoriæ.

Otalgia neuralgica	4	3	1	3	2	0
" dentalis	6	4	3	10	1	3
" hysterica	0	0	0	1	0	0

Motoriæ.

Contractiones musculorum tympani	1	0	0	0	0	0

Morbi Labyrinthi et Acustici.

Anæmia	1	0	0	0	0	0
Concussio labyrinthi	1	0	1	1	0	0
" ex vi opposita	0	0	1	0	0	0
" ex ictu aërio	1	0	0	0	0	0
Labyrinthitis chronica	1	0	0	0	0	1
Morbus acustici	0	0	1	1	0	0
Propriæ notæ Meniere	0	5	0	0	4	0

Surditas et Mutitas.

Surditas totalis acquisita ex meningitide,	0	3	0	0	2	0
" " congenita	0	1	0	0	2	0

HOUSE CASES.

From Oct. 1, 1889, to Oct. 1, 1890.

Ear Patients.

	Males.			Females.		
	R.	B.	L.	R.	B.	L.
Otitis media suppurativa acuta	1	0	1	2	0	0
Otitis media suppurativa acuta cum carie mastoidea	0	0	0	0	0	2
Otitis media suppurativa cum mastoiditide	3	0	1	6	0	5
Otitis media suppurativa cum polypo . .	2	1	5	1	0	3
Otitis media suppurativa chronica cum atresia meatus	0	0	1	0	0	0
Otitis media suppurativa chronica cum mastoiditide	1	0	0	0	0	1
Otitis media suppurativa chronica cum polypo tympani	0	0	0	1	0	0
Effectus otitidis mediæ suppurativæ . .	1	1	0	0	0	0
Otitis media acuta simplex	2	2	1	5	0	0
Otitis media acuta simplex cum mastoiditide	5	0	1	2	0	0
Otitis media acuta simplex cum perforatione	0	0	0	1	1	0
Trauma directa membranæ tympani . .	1	0	0	0	0	0
Otitis catarrhalis secernens mucosa acuta.	0	0	0	1	0	0
Otitis catarrhalis secernens mucosa chronica	1	0	0	2	1	0
Otitis catarrhalis adhæsiva insidiosa . .	1	2	0	2	0	0
Abscessus cervicis	1	2	0	0	0	0
Angioma cavernosum	1	0	0	0	0	0
Epithelioma auriculæ	1	0	0	0	1	0

Total . . . . . 76.

Operations Performed in Ear Department.

	R.	L.
Abscessus auriculæ, incisio	2	6
" meatus, "	15	7
" post aurem "	3	2
" supra aurem, incisio	2	5
Adenitis, incisio		1
Arteria carotica, ligatio	1	
Atheroma auriculæ	1	
Atresia meatus, incisio	1	1
Auriculæ amputatio	2	
Auriculæ neoplasma, remotio	1	
Bulla membranæ tympani, incisio	5	
Caries labyrinthi, sequestrum, remotio		1
" mallei, remotio	1	1
Cystis auriculæ, remotio	1	1
" lobiulæ, remotio	1	2
Fibroma lobiulæ, remotio	1	1
Fissura " conglutinatio		1
Hæmatoma auriculæ, incisio		1
Hyperplasia tonsillæ pharyngeæ, evulsio	46	
Mastoideus, apertio	13	11
Meatus, corpus adventitium, remotio	12	9
Membrana tympani, paracentesis	85	86
" " (pars flaccida), incisio	1	
Polypus nasi, remotio	4	
Tympanum et meatus, polypus, remotio	40	45
Uvulatomy	1	
Total	420	

Ages of Ear Patients.

	Males.	Females.
Birth to 3 years	88	81
3 to 15 "	421	347
15 to 25 "	566	434

	Males.	Females.
25 to 35 years	553	408
35 to 45 "	347	259
45 to 55 "	229	221
55 to 65 "	163	108
65 to 75 "	61	38
75 to 85 "	20	11
85 to 95 "	3	
Totals	2,451	1,907

House Patients.

Ear Patients:

Males	39
Females	37
Total House Patients	76

Out-Patients.

Ear Patients:

Males	2,451
Females	1,907
Total Out-Patients	4,358

Ear Patients.

Residents of Boston	2,453
" " Massachusetts	1,757
" " Maine	49
" " New Hampshire	38
" " Vermont	13
" " Rhode Island	5
" " Connecticut	9
" " other States	18
" " British Provinces	16
Total	4,358

Occupations of Ear Patients.

Actors	1
Agents	25
Apprentices	1
Artists	2
Attorneys	4
Brokers	1
Blacksmiths	41
Barbers	25
Bakers	15
Bartenders	6
Bell-boys	5
Book-keepers	20
Bookbinders	16
Boilermakers	15
Butchers	13
Brickmakers	2
Boxmakers	5
Brushmakers	1
Children	329
Carpenters	103
Cabinetmakers	15
Canvassers	6
Cigarmakers	9
Collectors	4
Cooks	26
Clergymen	3
Compositors	7
Conductors	9
Confectioners	3
Coopers	13
Coachmen	13
Carriagemakers	5

Dentists	1
Dealers	31
Dressmakers	47
Domestics	211
Drivers	16
Druggists	4
Draughtsmen	4
Dyers	3
Engineers	13
Errand boys	9
Engravers	9
Editors	1
Electric work	12
Expressmen	8
Farmers	62
Farm hands	11
F remen	10
Fishermen	15
Factory hands	134
Foreman	2
Foundrymen	2
Florists	1
Furniture work	3
Governesses	2
Gardeners	6
Gilders	1
Glass work	13
Goldsmiths	2
Gatetenders	1
Home	586
Hairdressers	3
Hatters	4
Housekeepers	43
Hostlers	17

Harnessmakers	9
Iron workers	17
Jewellers	12
Janitors	9
Laborers	365
Lumber workers	3
Leather workers	20
Longshoremen	7
Letter-carriers	3
Linemen	1
Masons	20
Machinists	70
Moulders	5
Machine operators	13
Manufacturers	3
Metal workers	37
Mechanics	14
Messengers	4
Milliners	10
Millers	3
Mill-hands	48
Musicians	9
Merchants	1
Millwrights	1
Miners	2
Nurses	22
Night-watchmen	10
Overseers	1
Office workers	7
Oystermen	1
Painters	58
Pedlers	35
Paper makers	2
Pensioners	3

Policemen	10
Pilots	1
Printers	24
Paper-hangers	3
Porters	19
Plumbers	11
Piano-makers	19
Railroad men	51
Rubber-workers	28
Reporters	6
Restaurateurs	1
Roofers	4
Sailors	36
Sextons	1
Sales people	68
Seamstresses	68
School	533
Soldiers	4
Shoemakers	112
Stoneworkers	47
Steam and gas workers	7
Shop hands	11
Shippers	5
Stable workers	11
Students	12
Stenographers	7
Tailors	46
Tailoresses	25
Telegraph operators	12
Teamsters	82
Tinsmiths	5
Teachers	25
Towboys	2
Trunkmakers	4

Undertakers	2
Upholsterers	13
Waiters	33
Weavers	31
Watchmakers	2
Washerwomen	26
Wood-workers	12
Other occupations	84
Total	4,358

SIXTY-SIXTH

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1891.

BOSTON:
ALFRED MUDGE & SON, PRINTERS,
No. 24 Franklin Street.
1892.

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1892.

OFFICERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary,

1891-92.

BOARD OF MANAGERS.

J. COLLINS WARREN, M. D., *President.*
AUGUSTUS HEMENWAY, *Treasurer*, 10 Tremont Street, Boston.
EDWARD I. BROWNE, *Secretary*, 53 State Street, Boston.

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WILLARD P. PHILLIPS.
WILLIAM C. ENDICOTT.
ROGER WOLCOTT.
ARTHUR ROTCH.
CHARLES P. CURTIS.
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PERCIVAL LOWELL.
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GEORGE P. GARDNER.
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SAMUEL J. MIXTER, M. D.

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B. JOY JEFFRIES, M. D.
ROBERT WILLARD, M. D.
HENRY W. BRADFORD, M. D.
H. BECKLES CHANDLER, M. D.

AURAL SURGEONS.

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EDMUND D. SPEAR, M. D.

ASSISTANT OPHTHALMIC SURGEONS.

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FREDERICK E. CHENEY, M. D.
W. D. HALL, M. D.

ASSISTANT AURAL SURGEONS.

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HENRY L. MORSE, M. D.

MICROSCOPIST AND CURATOR OF THE PATHOLOGICAL CABINET.

WILLIAM F. WHITNEY, M. D.

Aural Clinical Assistants.

EDWARD M. PLUMMER, M. D.
WM. SOHIER BRYANT, M. D.

Ophthalmic Internes.

FRANCIS I. PROCTOR, M. D.
FREDERICK A. DAVIS, M. D.

Aural Interne.

E. A. CROCKETT, M. D.

GEORGE STEDMAN, M. D., *Superintendent.*
MARY H. NUGENT, *Matron.*

REPORT OF THE MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1891.

In behalf of the managers, we hereby present the report of the surgeons for the year ending Sept. 30, 1891.

The total number of new patients applying for treatment was 16,504, of whom were

Eye patients	11,926
Ear patients	4,578

an increase over those for 1890 of 1,215.

Of this great numher, 9,703 came from Boston, and 6,318 from other parts of Massachusetts, making a total of 16,021 from within the State; while only 381 came from other New England States, and 102 from outside of New England, showing that the Infirmary is essentially, as its name imports, a Massachusetts charity.

The number of house patients for the year was 853, as against 752 for 1890, an increase of 101.

The additional buildings referred to in last year's report have now been completed, and have been occupied since the first of August last by the surgeons and patients of the Ear department, for whose use they were exclusively designed. The relief which this change has given to both the Eye and Ear departments, formerly crowded together in the old buildings, is incalculable, as may be readily imagined by

considering the great army of over 16,000 patients above mentioned, who have gone through our doors during the past year, most of whom came several times, and making an aggregate of over 72,000 visits, as per the Surgeon's Report, and a daily average of 235 patients, besides the house patients.

It is with pleasure that the Managers are able to state that the very heavy cost of purchasing, altering and furnishing the new buildings has now been fully paid. The continued generosity of Miss Helen C. Bradlee in gifts from the funds left by her brother, Mr. J. Putnam Bradlee, amounted in all to $35,000; the liberality of the Commonwealth provided $20,000; the concert in March last, for which we are indebted to Mrs. C. J. Blake, produced $2,500; Mr. Henry Saltonstall kindly gave us $2,000; and the Infirmary made up the balance of the expenditure from its own funds to a considerable amount. When one reflects upon the vast aggregate of misery and suffering which is annually relieved by this charity, with its 16,000 poor patients; upon the gratuitous and devoted service rendered them by our surgeons, who stand at the head of their profession for skill and experience; upon the rescue from blindness or deafness of many of our patients, enabling them to earn a living for themselves and their families, who would otherwise be thrown upon the city and the State for support; it must be conceded that no nobler, or more useful, or more economical, charity (in a broad sense) exists among the many which the city of Boston so generously maintains. The statistics of the occupations of the patients which will be found in the reports of the ophthalmic and aural departments, are interesting as showing that not only do our patients belong to the industrial classes and what proportion to each, but that nearly every class of industry is represented.

By far the larger part of the annual expenses of the

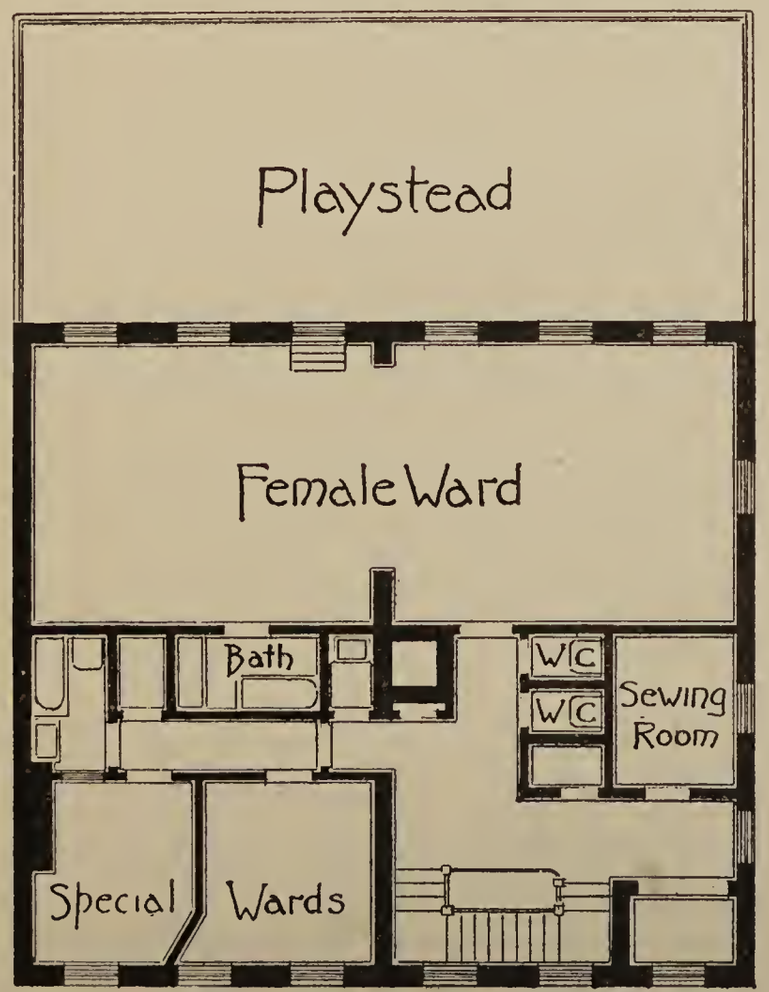
Infirmary is on account of the house patients, so called, that is, those for whom the more serious operations, both for eyes and ears, are performed, and who have to be lodged, fed and tenderly cared for by experienced nurses for weeks or months, till they can be restored to their families or friends. There were furnished to these patients 2,931 weeks' board and lodging during the past year. Heretofore we have been obliged to reject many patients of this class, or defer operations longer than was desirable, for want of rooms and beds to receive them.

As stated above, the number of house patients has increased during the past year over the previous one, by one hundred and one, or about thirteen per cent, owing partly to the use and occupation of our new buildings enabling us to provide more beds; but, as they were not ready till August, it is evident that the number of house patients for the current year, with the attendant increase in the cost of food, besides more nurses and servants, will draw so heavily upon our funds that we shall be obliged to curtail our usefulness in this direction unless the generous aid from the public and from the State, which we have so long experienced, is continued. The total number of beds now in use for patients is ninety, against seventy before the acquisition of the new buildings, and we have room for about twenty-five more beds, for which the rapidly growing population of the city and State will soon make urgent calls upon us.

Dr. C. J. Blake, of our aural department, has kindly furnished a detailed description of the new aural buildings, with reduced plans of the different wards and operating rooms, which will be found preceding the Surgeons' Report.

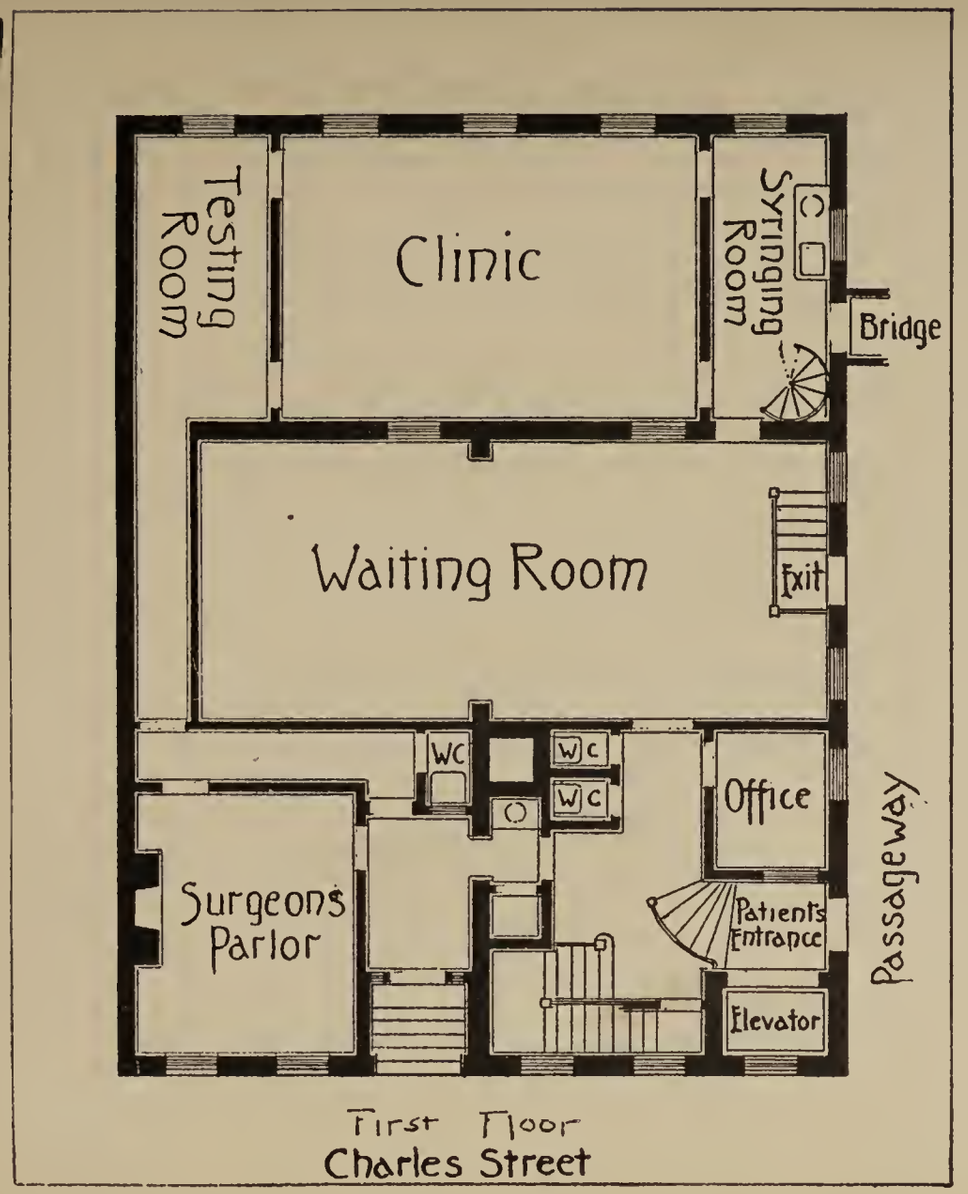
GEORGE P. GARDNER,
AUGUSTUS HEMENWAY,
For the Managers.

New Aural Building
of the
Mass Charitable Eye & Ear Infirmary

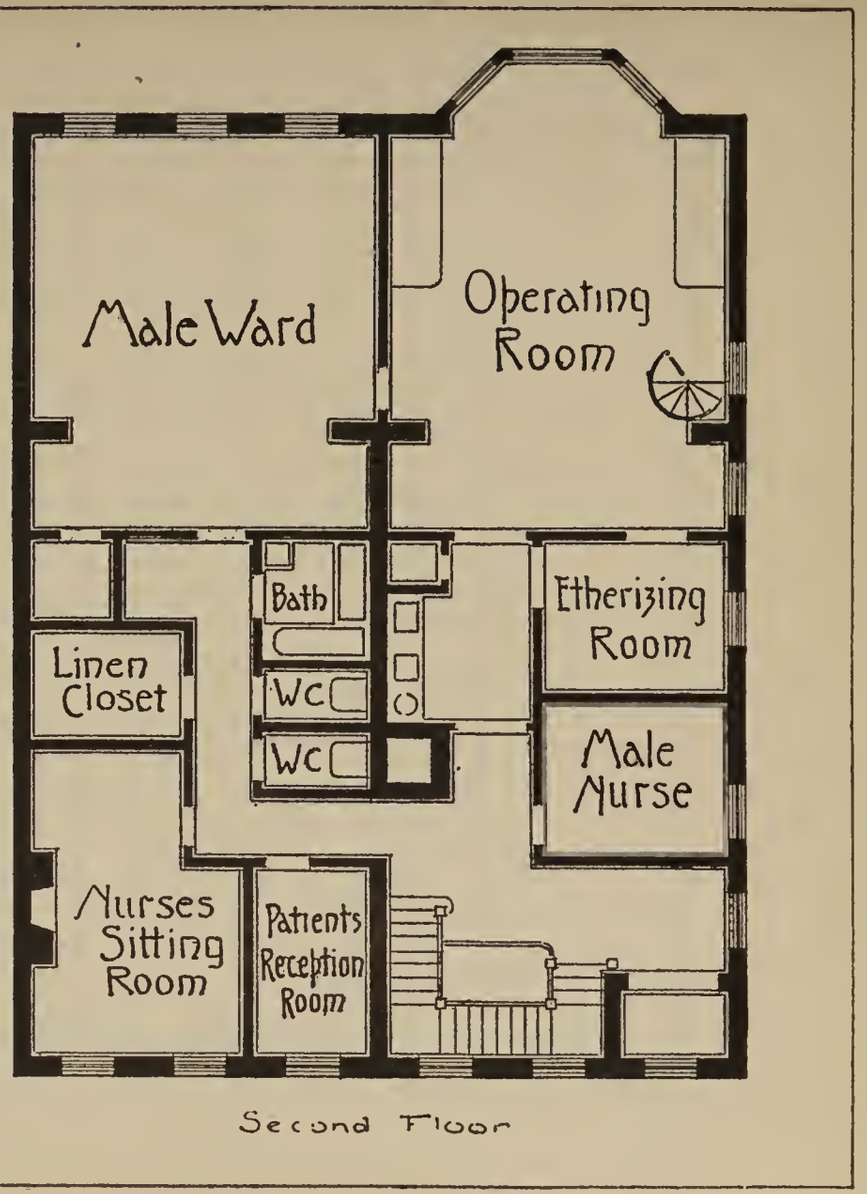


Third Floor

Fourth Floor



First Floor
Charles Street



Second Floor

DESCRIPTION OF THE NEW AURAL BUILDING.

The steady increase in the number of out-patients in both departments of the Massachusetts Charitable Eye and Ear Infirmary and the corresponding demand for more accommodation for house patients, together with the recognition of the advisability of providing a separate operating room and wards for ear patients, and also in both departments proper wards for the isolation of certain cases, led, after a careful consideration, which showed that no adequate addition could be made to the existing buildings, to the purchase of the two houses, numbered 164 and 166 Charles Street, next adjoining the Infirmary on its southerly side, but separated from it by the paved passageway which gives entrance to the court-yard of the Infirmary in the rear and to the new ophthalmic wing, the plans of which were given in the Annual Report of 1881, and to the decision to remodel them for the exclusive use of the aural department.

This remodelling which included the removal of the party walls and partitions, the building out of both houses in the rear, and the provision of a thorough system of drainage and of ventilation, was carried out upon plans furnished by Cabot, Everett & Meade, architects, and under the direction of Mr. Everett, the result being provision for an out-patient service and for house patients under one roof which has been so far found to satisfactorily answer the demands upon it, with the prospect of being adequate for future needs for some time to come.[1]

[1] The frontage of the building on Charles Street is forty-eight feet and the depth sixty-two feet on the first and second story, the upper floors being only forty-two feet deep.

As will be seen on the accompanying plans, the new building has two main entrances, one on Charles Street, and another leading from the gateway at which all patients to both departments enter during the morning clinic hours. The first of these is intended for the use of surgeons and students, and the second for the admission of aural out-patients to the waiting room and clinic.

Entering at this door, and up a short flight of steps, the patients pass the office, occupied by an attendant who has general supervision of the waiting room, an apartment occupying nearly the full width of the building, provided with wooden benches and capable of seating comfortably about one hundred and fifty persons. In the rear of the waiting room is the clinic, the room in which the daily patients are treated, flanked at either end by the syringing room and the testing room, the former being occupied during the morning hours by a male attendant who acts as dresser, and the latter by the surgeons for testing the hearing in cases requiring special examination, and for minor operations; this room also communicates by a passageway with the surgeons' reception room and private entrance, so that admission may be had to the clinic without passing through the waiting room.

Exit from the waiting room for patients is provided for by a short stairway and a door opening directly on to the paved passageway, before mentioned, all confusion in entrance and exit being thus avoided.

In addition to the rooms mentioned, there are, on the first floor, water-closets for out-patients, and closets and lavatory for the use of surgeons and students, all the plumbing being massed, here and elsewhere in the building, as nearly as possible, about the central ventilating shaft A.

Access to the floors above is had by means of a stairway and elevator in the front of the building and in the rear by a circular iron staircase from the syringing room to the oper-

ating room over it, this latter being used during clinic hours and also forming a supplementary part of the fire escape system on the outside of the building.

The principal features of the second floor are the operating room and the male ward, of six beds, both in the rear of the building and each communicating with the hall at the front by passageways which open respectively upon the etherizing room and operating room, lavatory and linen closet, and upon the general linen store-room the water-closet and lavatory for the male ward. The other rooms upon this floor are one for a male attendant, a small reception room for the friends of patients, and a larger room which is used as a sitting-room for the nurses.

The rear of the third floor is entirely occupied by the Bradlee ward for women and children, a large sunny room with ten beds and three cribs, and with a door opening in the rear upon the roof of the story below, which is fenced and arranged for use as a playstead for children. The room opposite the elevator, and used as a sewing-room, is furnished with hot-water tables and gas heating apparatus so that the food, brought from the kitchen in the main building in covered trays, may be distributed from this room directly to the patients in the wards. One half of the front of this floor is devoted to a suite consisting of two single-bedded rooms and a bath room shut off from the hallway and ward by a door, and available for the use of members of the profession, trained nurses, and others to whom it may be proper to extend the services of the institution as patients, and for such special cases as may require the constant attendance of a nurse.

A similiar arrangement of rooms on the fourth floor is provided for the purpose of isolating such patients as should not be put into the general wards; the windows of these rooms are fitted with iron gratings.

In the rear of this floor is a ward of seven beds, and opposite it the quarters of the resident house officer, comprising a large room with windows on two sides and a commodious bath room with door opening upon the hallway opposite the elevator well.

The fifth floor, not shown on the plan, is divided into quarters for the male and female nurses and attendants, the latter having a separate hallway and rooms *en suite*, including bath room and water-closet, at their sole disposal.

The disposition of the space at command is, therefore, as will be seen by a review of these plans, such as to make it possible to carry on a large daily out-patient clinic. The opportunity which this clinic affords for purposes of instruction, and the great need of such an institution, accommodating if necessary as many as thirty patients in the house, is shown by the fact that since the opening of the building to use in August last the out-patient department and the wards on the second and third floors — the only ones furnished — have on more than one occasion been very nearly taxed to their full capacity.

The walls throughout the building are hard finished and painted in light colors, and the floors are of maple, close laid. The furnishing is simple, the bedsteads being of iron of the regulation hospital pattern, painted white, with wire springs and best quality mattresses and bedding. The ward tables and other furnishings are of oak, and in each ward there are "dressing tables" with glass tops and trays beneath for bottles and covered glass jars to contain solutions, bandages and dressings. On each floor there are also shallow medicine closets with shelves and with glass doors, which are kept locked and under control of the nurses on duty.

The operating room has a large bay window with top

light; there is also a light in the ceiling, and on either side of the bay are raised platforms for students. The iron staircase which leads down into the clinic is inclosed in a partition, and the lower end of the passage which leads from the operating room to the staircase hall is closed by folding doors, so that this portion of the building can be effectually isolated during operations or lectures, the door between the operating room and the male ward being available only in case of fire as affording access to the circular iron stairway. The tables for instruments and dressings, both in the operating room and in the clinic, are of oak with glass tops, and all precautions have been taken, as far as possible, in the equipment of the building, to ensure thorough cleanliness in everything that pertains to the surgical care of the patients.

The present building is probably the most complete hospital especially devoted to the treatment of diseases of the ear in this country, and it is the earnest desire of its staff that it should become a centre not only for the purpose for which it was primarily constructed, but also for that wider distribution of knowledge in this department which shall extend its benefits to humanity far beyond the limits of its walls.

The occupation of the new building by ear patients has had the further advantage of vacating space in the main building, which had become absolutely necessary for the use of the ophthalmic department, and which has been made available for the purposes of the surgeons' room and library, with a microscope room and photograph room adjoining a house officer's dining-room and an isolating ward; on the second floor, also, one of the rooms formerly occupied by the matron has been devoted to the latter purpose, thus providing two isolating wards in the main building — the one

on the first floor for male, and the one on the second floor for female, ophthalmic patients.

A bridge by which all necessary communication between the ophthalmic and aural buildings is effected, crosses the passageway and enters the latter building at the syringing room.

REPORT OF THE SURGEONS.

To the Managers of the Massachusetts Charitable Eye and Ear Infirmary,

For the Year ending Sept. 30, 1891.

Gentlemen: — The Surgeons of the Infirmary herewith submit their report for the year ending Sept. 30, 1891 : —

The whole number of new patients applying for treatment in both departments was sixteen thousand five hundred and four.

These were divided as follows : —

Eye Patients	11,926
Ear Patients	4,578

The large annual increase over preceding years, principally in the eye department, consisted entirely of patients belonging to the State of Massachusetts.

The number of visits made in the eye department has been forty-nine thousand six hundred and eighty, a daily average for the year of one hundred and sixty-two. In the ear department twenty-three thousand and thirty-two, or a daily attendance of seventy-three, making in both departments a daily average attendance of two hundred and thirty-five patients, exclusive of house patients.

In addition to this increase, the large number of important operations performed, among which were one hundred and thirty-five cataract extractions, and forty-eight operations in or about the mastoid, shows a year of unusual work.

We desire to express our appreciation of the extensive alterations and improvements to the Infirmary, now nearing completion.

The increased space gained by the removal of the aural department into a separate building has made possible what has been greatly needed in the past, wards completely isolated for contagious diseases.

It has been another source of satisfaction to the Ophthalmics Staff to have separate operating rooms, doing away with the possibility of infection from septic ear patients.

Through the generosity of the Managers, the library has received several valuable additions, and it is hoped the coming year will see the nucleus of a pathological laboratory.

The thanks of the Surgeons are due to the faithful and efficient work of the Assistant Surgeons and Internes, and to the assiduous care of the Superintendent and Matron, which have materially added to the success of the year's work.

H. BECKLES CHANDLER,
E. D. SPEAR,
For the Board of Surgeons.

STATISTICS.

Oct. 1, 1890, to Oct. 1, 1891.

CLASSIFICATION OF PATIENTS, DISEASES, AND OPERATIONS.

House Patients.

Eye Patients:

Males	476	
Females	257	
	—	733

Ear Patients:

Males	60	
Females	60	
	—	120
Total House Patients		853

Out-Patients.

Eye Patients:

Males	7,378	
Females	4,548	
	———	11,926

Ear Patients:

Males	2,535	
Females	2,043	
	———	4,578
Total Out-Patients		16,504

Eye Patients.

Residents of	Boston	7,194
"	other parts of Massachusetts	4,379
"	Maine	84
"	New Hampshire	124
"	Vermont	31
"	Rhode Island	24
"	Connecticut	19
"	other States	32
"	British Provinces	36
"	England	2
"	Belgium	1
		11,926

Occupation of Eye Patients.

Agents	24
Barbers	48
Blacksmiths	60
Carpenters	192
Children	3,489
Clergymen	7
Clerks	348
Dentists	2
Domestics	980
Engineers	24
Electricians	16
Farmers	108
Firemen	15
Fishermen	20
Hatters	12
Home	1,140
Janitors	28
Laborers	744

Leather-workers	41
Masons	72
Mariners	58
Mechanics	444
Messengers	69
Metal workers	252
Milliners	36
Mill operatives	603
Musicians	13
Nurses	36
Painters	94
Peddlers	37
Photographers	15
Plumbers	68
Policemen	11
Printers	103
Provision dealers	27
Railroad	72
Rubber workers	4
Saloon keepers	9
Sewing	249
Shoemakers	168
Soldiers	9
Students	72
Stone-cutters	180
Tailors	173
Teachers	37
Teamsters	136
Telegraphers	15
Tradesmen	62
Waiters	59
Widows	26
Wood-workers	146
From the workhouse	7

From other hospitals	13
Other occupations	242
Unrecorded	11
	11,926

Diseases of the Eye.

Lids.

Abscess	53
Anchyloblepheron	2
Blepharadenitis	490
Burn	9
Chalazion	300
Cuts	10
Cyst	22
Dermatitis	1
Ecchymosis	17
Ectropion	18
Entropion	18
Epicanthus	6
Eczema	45
Epithelioma	18
Erysipelas	4
Foreign body	87
Herpes	6
Hordeolum	83
Lagophthalmus	2
Lippitudo	3
Molluscum	2
Mævus	1
Œdema	54
Ptosis	25
Pediculus	5
Smyblepharon	4

Tear of lid	1
Trichiasis	72
Tumor	20
Verruca	14
Xanthelasma	3
Total	1,395

Lachrymal Apparatus.

Abscess	78
Catarrh lachrymal sac	29
Epiphora and obstruction lachrymal ducts	293
Mucocele	26
Traumatic epiphora	1
Foreign body in canaliculus	1
Total	428

Conjunctiva.

Burns	58
Chemosis	9
Conjunctivitis, catarrhal	1,485
" diphtheritic	6
" follicular	25
" chronic	199
" purulent	78
" neonatorum	42
" granular	148
" " with pannus	76
" phlyctenular	309
" traumatic	68
" strumous	8
Cut of	9
Cyst	3
Ecchymosis	72

Epithelioma	1
Foreign body	35
Hyperæmia	25
Hypertrophy	1
Œdema	3
Pinguecula	26
Pigment	1
Pterygium	80
Total	2,767

Cornea and Sclera.

Abrasion	40
Abscess	9
Anterior staphyloma	12
Burn	15
Foreign body	1,105
Foreign body anterior chamber	4
Leucoma	302
" inflamed	46
Infiltration cornea	49
Keratitis, simplex	305
" phlyctenular	230
" interstitial	16
" traumatic	24
" fascicular	26
Keratoconus	10
Kerato-iritis	14
Lead deposit on cornea	1
Rupture of cornea	2
Tumor of cornea	1
Ulcer of cornea	536
" " vascular	26
" " traumatic	45

Ulcer of cornea serpens	14
Wound	76
Episcleritis	35
Foreign body in sclera	6
Rupture of sclera	3
Scleritis	18
Sclero-keratitis	12
Staphyloma of sclera	2
Wound of sclera	6
" in ciliary region	13
Total	3,003

Iris and Ciliary Body.

Irido-cyclitis	7
Sarcoma of iris and ciliary body	2
Ciliary injection	32
Coloboma iris	4
Foreign body in iris	2
Hemorrhage anterior chamber	23
Hypopyon	19
Irido-dialysis	11
Iridodonesis	18
Iritis	117
" syphilitic	10
" traumatic	20
Mydriasis	63
" artificial	1
Occluded pupil	13
Prolapse of iris	24
Synechia, anterior	37
" posterior	43
Wound, ciliary body	19
Total	465

Choroid.

Albinism	1
Atrophy	35
Choroiditis	62
Coloboma	3
Irido-choroiditis, sympathetic	11
" "	17
Retino-choroiditis	1
Rupture choroid	1
Sarcoma "	1
Sclerotico-choroiditis, posterior	11
Staphyloma, posterior	34
Glaucoma	52
Tumor of choroid	3
Total	232

Lens.

Dislocation of	28
Cataract, mature	181
" anterior pyramidal	2
" capsular	4
" cortical	4
" congenital	5
" cretaceous	3
" incipient	97
" morgagian	1
" lamellar	3
" posterior polar	8
" traumatic	59
" secondary	32
Leticular opacity	41
Foreign body in lens	1
Total	469

Vitreous.

Cholesterine in	1
Foreign body in	2
Hemorrhage into	12
Hyalitis	9
Muscæ volitantes	21
Opacities	38
Total	83

Retina.

Embolism of central artery	5
Hemorrhage into macula	7
Neuro-retinitis	22
Retinitis	6
" albumenurica	6
Glioma of	4
Retinitis apoplectica	12
" pigmentosa	8
Remains of pupillary membrane	1
Hyperæsthesia retina	5
Separation	27
Thrombosis retinal vein	1
Total	104

Optic Nerve.

Atrophy	43
Neuritis	13
Opaque nerve fibres	2
Total	58

Eyeball and Orbit.

Disorganized globe	18
Exophthalmus	4
Foreign body in globe	4
Inflamed stump	4
Irritable orbit	4
Phthisis bulbi	30
Rupture of globe	2
Neuroma	1
Necrosis of orbit	1
Abscess " "	3
Tumor " "	4
Tumor of globe	3
Hydrophthalmus	7
Panophthalmitis	4
Abscess of brow	6
Tumor "	2
Total	97

Refraction and Accommodation.

Asthenopia	15
Astigmatism	754
Hypermetropia	907
Myopia	282
Emmatropia	69
Paralysis of accommodation	7
Presbyopia	452
Spasm	4
Total	2,490

Muscular Affections and Neuroses.

Blepharospasmus	16
Ciliary neuralgia	10
Diplopia	15
Insufficiency of internal recti	2
Nictitation	6
Nystagmus	25
Paralysis of facial	8
" third	15
" sixth	26
Alternating strabismus	12
Convergent "	245
Divergent "	32
Supra-orbital neuralgia	7
Total	419

Affections of the Percipient Apparatus.

Amblyopia	31
" ex abusu	28
" tobacco	2
Chromotopsia	1
Scotoma	5
Total	67

General Injuries.

Blows and Cuts	120
Burns	48
Total	168

Miscellaneous.

Eloped	38
No disease	28
Referred to other institutions	44
" " ear department	12
Unfit	621
Unrecorded	157
Total	900

Summary of Eye Diseases.

Eyelids	1,395
Lachrymal apparatus	428
Conjunctiva	2,767
Cornea and sclera	3,003
Iris and ciliary body	465
Choroid	232
Vitreous	83
Lens	469
Retina	104
Optic nerve	58
Lesions of eyeball and orbit	97
Refraction and accommodation	2,490
Muscular affections and neuroses	419
Affections of the percipient apparatus	67
General injuries	168
Miscellaneous	900
Total	13,145

OPERATIONS.

Lids.

Chalazion	88
Entropion, Graefe's operation	1

Excision of cyst	3
" " new growth	7
Green's operation for trichiasis	13
Other " "	3
Plastic	8
Ptosis	6
Symblepharon	1
Total	130

Conjunctiva.

Desmarre's operation for pterygium	26
Peritomy	2
Total	28

Cornea.

Paracentesis for hypopyon	4
Removal foreign bodies	1,114
Sæmisch's operation	18
Transplantation cornea	2
Total	1,138

Iris.

Division of anterior synechia	3
Iridectomy for artificial pupil	22
" preparatory to cataract extraction	1
" for glaucoma	10
" " occluded pupil	3
" " prolapsed iris	6
" " foreign body	1
Iridotomy	1
Total	47

Lens.

Discission of cataract	26
Extraction (Graefe)	100
" (simple)	7
" " with excision	
" circular piece of iris	15
" suction	14
Capsule operations	28
Total	190

Enucleation.

For disorganized globe	4
" glaucoma	1
" glioma	2
" rupture of globe	1
" epithelioma	1
" exophthalmus	1
" no cause recorded	41
Total	51

Muscles.

Convergent strabismus	89
Divergent strabismus	1
Advancement of internal rectus	4
" " external "	4
Total	108

Miscellaneous Operations.

Foreign body anterior chamber	4
" " sclera	1
Supra-orbital neuroma	1
Abscess, brow	13
Foreign body in lens	1

Division of superior rectus	1
Incision of sclera for separation retina	1
Tumor, brow	1
Tumor, lid	1
Foreign body in globe (magnet)	2
Evisceration	1
Removal recurrent glioma	1
Abcess, lids	24
Total	52

Diseases of House Patients.

Astigmatism	1
Atrophy optic nerve	3
Abscess of brow	1
" " orbit	1
" " cornea	7
Amblyopia, tobacco	1
Burn of cornea	9
Cataract	145
" traumatic	16
" secondary	23
" congenital	19
" zonula	1
" morgagnian	1
Choroiditis	2
Conjunctivitis, catarrhal	6
" granular	42
" " with pannus	39
" phlyctenular	1
" purulent	22
" strumous	1
" diphtheritic	1
" traumatic	1

Cyclitis	1
Dermatitis	1
Dislocated lens	6
Epithelioma, lid	4
Epicanthus	1
Ectropion	3
Episcleritis	4
Entropion	8
Exophthalmus	1
Foreign body in cornea	5
" " " anterior chamber	3
" " " globe	6
Glaucoma	16
Glioma	2
Hydrophthalmus	2
Herpes	1
Injury to globe	3
Irido-choroiditis	2
Irido-cyclitis	1
Iritis, acute	25
" chronic	1
" specific	2
Keratitis	33
" phlyctenular	1
" interstitial	6
" vascular	2
Kerato-iritis	3
Keratoconus	1
Leucoma	13
Lachrymal abscess	1
" obstruction	2
Mydriasis	1
Neuritis optic	1
Neuroma	1

Occluded pupil	9
Œdema, lid	1
Panophthalmitis	2
Paralysis third nerve	1
" sixth "	1
Phthisis bulbi	22
Ptosis	4
Pterygium	5
Rupture of cornea	1
Separation of retina	5
Sarcoma iris and ciliary body	3
Staphyloma, anterior	11
" of sclera	1
Strabismus, convergens	10
" divergens	7
Sympathetic irritation	1
" ophthalmia	10
Synechiæ, anterior	2
" posterior	2
Trichiasis	3
Tumor of lid	2
" " globe	2
" " orbit	1
" " brow	1
Ulcer of cornea	49
" " " with hypopyon	9
" " " with prolapse iris	1
" " " traumatic	4
" " " serpens	18
Wound in ciliary region	15
" " cornea	17
Miscellaneous	7
Total	733

REPORT OF ONE HUNDRED AND THIRTY-SIX OPERATIONS

FOR THE

Extraction of Cataract,

PERFORMED AT THE INFIRMARY BY THE OPHTHALMIC STAFF DURING THE YEAR ENDING AUG. 31, 1891.

COMPILED BY H. BECKLES CHANDLER, M. D.

During the past year there have been one hundred and thirty-six operations for the extraction of cataract, tabulated as follows: —

Method Von Graefe	100
Simple extraction	7
Simple extraction with excision of a circular piece of iris	15
Suctions	14

Of the one hundred operations by the method of Graefe, ninety-six were considered uncomplicated senile cataracts.

The age of forty being taken as the standard, the resulting visions were as follows: —

Vision = 1.	3	Vision = 0.2	16
" = 0.9	3	" = 0.1	18
" = 0.8	4	" = 0.05	3
" = 0.7	3	" = 0.03	1
" = 0.6	2	" = 0.02	1
" = 0.5	9	" perception light	3
" = 0.4	16	" 0	3
" = 0.3	10	Died	1

The majority of the visions tabulated above were taken at the time of discharging the patients, two or three weeks after operation, and doubtless would be much improved on future trial.

Eleven secondary operations were performed, and vitreous lost in seven. Ether, at the request of the patient, was administered twice; in the remaining number cocaine was used.

Strict antiseptic precautions were taken, the conjunctival sac and surroundings were washed with a solution of corrosive sublimate, all dressings sterilized in dry heat at a temperature of 140° centigrade.

In spite of all the precautions, suppurative destruction took place in three cases.

There are a certain number of patients whom it is impossible to keep from self-infection, exemplified in case four of the modified simple extractions. This patient, suffering from ozæna, persisted in pushing up her bandage and wiping her eye with a soiled handkerchief; although the eye was in a good condition five days after the operation, purulent conjunctivitis set in, followed by sloughing cornea and loss of the eye. Irrigation was used four times, principally in immature cataracts. The scoop was used twice.

During the past year the average duration of patients under treatment has been eighteen and one sixteenth days, which may be compared with the duration for the past five years, viz., 1886, twenty and one-half days; 1887, twenty-two and one-half days; 1888, nineteen and three-fourths days; 1889, twenty-two and seven-eighths days; 1890, twenty-one and three-fourths days. It will be observed that this shows a reduction in the period of treatment, which is doubtless due to the strict antiseptic precautions adopted.

In cases 6, 58, and 69, plastic iritis was followed by blocked pupil, but, in all probability, a future operation will result in the partial restoration of sight.

Three of the seven cases of simple extraction were followed by prolapsed iris. It has been the unhappy experience of those surgeons performing simple extraction to meet with prolapse or incarceration of the iris, in such a large percentage of the cases operated upon by this method, that the operation has been practically abandoned.

STATISTICS OF CATARACT EXTRACTIONS, WITH IRIDECTOMY, FOR THE YEAR ENDING AUG. 31, 1891.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	Female. 60 Irish. Good.	18 months. Normal.	Sept. 3, 1890. Graefe. Cocaine. Bandage removed eighth day. 21 days.	Sept. 24, 1890, V. = 0.4.
2	Female. 66 Irish. Fair.	Secondary to Glaucoma. No perception of light.	Sept. 3, 1890. Graefe. Ether. 21 days.	Sept. 24, 1890, V. = fingers, 2 m.
3	Female. 65 Amer. Fair.	2 years. Good.	Sept. 8, 1890. Graefe. Cocaine. Normal. 31 days. Secondary.	Oct. 9. 1890, V. = 0.6.
4	Male. 62 Irish. Good.	1 year. Good.	Sept. 9, 1890. Graefe. Cocaine. Normal. 15 days.	Sept. 25, 1890, V. = 0.9.
5	Male. 49 Irish Good.	1 year. Good.	Sept. 10, 1890. Graefe. Cocaine. Iodoform. Bandage removed fifth day. Convalescence normal. 13 days.	Sept. 23, 1890, V. = 0.9.
6	Male. 24. Amer. Good.	Secondary to Iritis.	Sept. 20, 1890. Extraction through previous iridectomy down. Iritis blocked pupil. 23 days.	Oct. 13, 1890, V. = perception of light.
7	Male. 19 Amer. Good.	Traumatic. 4 weeks.	Sept. 22, 1890. Graefe. Cocaine. Normal. 21 days.	Oct. 13, 1890, V. = 0.7.
8	Female. 70 Scotch. Good.	1 year. Normal.	Sept. 24, 1890. Graefe. Cocaine. Loss of vitreous. Convalescence normal. 23 days.	Oct. 17, 1890, V. = 0.05.
9	Male. 71 Amer. Good.	10 years. Post. synechiæ.	Sept. 30, 1890. Graefe. Cocaine. Great difficulty in extraction. Capsule very thick. Vitreous came forward into anterior chamber, but did not escape. Convalescence normal. 16 days.	Oct. 16. 1890, V. = 0.1.

No	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
10	Female. 42 Irish. Good.	18 months. Normal.	Oct. 3, 1890. Graefe. Cocaine. Bandage removed in 7 days. Convalescence normal. 15 days.	Oct. 18, 1890, V. = 0.5.
11	Male. 69 Irish. Good.	1 year. Normal.	Oct. 4, 1890. Graefe. Cocaine. Some difficulty in expressing lens. Slight loss of vitreous. Convalescence normal. 14 days.	Oct. 18, 1890, V. = 0.2.
12	Male. 56 Canada. Good.	1 year. Good.	Oct. 8, 1890. Graefe. Cocaine. Convalescence normal. 8 days.	Oct. 16, 1890, V. = 0.4.
13	Female. 67 Amer. Fair.	8 years. Good.	Oct. 10, 1890. Graefe. Cocaine. Convalescence normal. 20 days.	Oct. 30, 1890, V. = 0.1.
14	Female. 55 Irish. Fair.	6 years. Good.	Oct. 14, 1890. Graefe. Cocaine. Patient developed acute mania on the fourth day. Wound well united. Pupil clear. 6 days. Vision estimated.	Oct. 20, 1890, Estimated V. = 0.2.
15	Female. 67 Amer. Poor.	3 years. Good.	Oct. 15, 1890. Graefe. Ether. Loss of vitreous. Convalescence normal. 29 days.	Nov. 13, 1890, V. = 0.1.
16	Female. 65 Irish. Fair.	1 year. Good.	Oct. 17, 1890. Graefe. Cocaine. Operation normal. Convalescence good. 15 days.	Nov. 1, 1890, V. = 0.3.
17	Male. 81 Amer. Fair.	2 years. Good.	Oct. 18, 1890. Graefe. Cocaine. In trying to remove opaque capsule with forceps, small amount of vitreous lost. Some iritis, otherwise convalescence good. 38 days.	Nov. 26, 1890, V. = 0.1.
18	Female. 55 Irish. Fair.	2 years. Good.	Oct. 19, 1890. Graefe. Cocaine. Operation and convalescence normal. 12 days.	Oct. 31, 1890, V. = 0.5.
19	Male. 83 English. Good.	2 years. Good.	Oct. 22, 1890. Graefe. Cocaine. Normal convalescence. Vision, Jan. 3, 1891. 0.3. 22 days.	Nov. 13, 1890, V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
20	Male. 71 Canada. Fair.	2 years. Good.	Oct. 22, 1890 Graefe. Cocaine. Patient removed bandage on night of operation, and searched about ward for her rosary. This was followed next day by considerable chemosis; cornea became hazy. Patient left contrary to advice; returned in three weeks with panophthalmitis. 11 days.	Nov. 2, 1890, V. = 0.
21	Female. 40 Amer. Good.	1 year. Good.	Nov. 11, 1890. Graefe. Cocaine. Normal convalescence. 20 days.	Dec. 1, 1890, V. = 0.4.
22	Male. 66 Amer. Fair.	28 years. Morgagnian. Doubtful outer side.	Nov. 13, 1890. Graefe. Cocaine. Normal convalescence. 12 days.	Nov. 24, 1890, V. = 0.2.
23	Female. 64 German. Good.	2 years. Good.	Nov. 13, 1890. Graefe. Cocaine. Normal convalescence. 13 days.	Nov. 26, 1890, V. = 0.2.
24	Male. 63 Irish. Good.	2 years. Good.	Nov. 15, 1890. Graefe. Cocaine. Normal convalescence. 16 days.	Dec. 1, 1890, V. = 0.4.
25	Female. 75 Irish. Good.	1 year. Good.	Nov. 19, 1890. Graefe. Cocaine. Normal convalescence. 19 days.	Dec. 8, 1890, V. = 0.2.
26	Female. 83 Amer. Fair.	2 years. Good.	Nov. 25, 1890. Graefe. Cocaine. Five days after operation patient died suddenly.	Died.
27	Male. 60 Irish. Fair.	15 years. Good.	Nov. 25, 1890. Graefe. Cocaine. Convalescence normal. 21 days.	Dec. 16, 1890, V. = 0.1.
28	Female. 77 Canada. Good.	2 years. Good.	Nov. 26, 1890. Graefe. Cocaine. Great difficulty in removing lens, due to synechiæ. Scoop was used, some vitreous lost. Iritis followed operation. 44 days.	Jan. 9, 1891, V. = 0.05.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
29	Male. 52 Irish. Good.	5 years. Good.	Nov. 26, 1890. Graefe. Cocaine. Convalescence normal. 12 days.	Dec. 8, 1890, V. = 0.4.
30	Female. 56 Amer. Good.	3 years. Good.	Dec. 4, 1890. Graefe. Cocaine. Patient very restless. Some capsule left at bottom of wound. 16 days.	Dec. 20, 1890, V. = 0.1.
31	Male. 82 Amer. Good.	18 months. Good.	Dec. 4, 1890. Graefe. Cocaine. Atropine. Capsule very tough. Cornea collapsed, after extraction of lens. Convalescence normal. 11 days.	Dec. 15, 1890, V. = 0.1.
32	Female. 76 Amer. Fair.	3 years. Good.	Dec. 4, 1890. Graefe. Cocaine. Atropine. Very small iridectomy. Iritis seventh day, and pupil small and filled with opaque capsule. 35 days.	Jan. 8, 1891, V. = 0.3.
33	Female. 75 German. Good.	3 years. Good.	Dec. 8, 1890. Graefe. Cocaine. Operation normal. Eye opened eighth day, pupil clear. 14 days.	Dec. 22, 1890, V. = 0.2.
34	Female. 57 Amer. Good.	2 years. Good.	Dec. 8, 1890. Graefe. Cocaine. Operation normal. Eye opened eighth day, considerable redness. 15 days.	Dec 23, 1890, V. = 0.4.
35	Female. 51 Irish. Good.	2 years. Good.	Dec. 8, 1890. Graefe. Cocaine. Operation and convalescence normal. 14 days.	Dec. 22, 1890, V. = 0.2.
36	Female. 68 Amer. Good.	3 years. Good.	Dec. 12, 1890. Graefe. Cocaine. Operation and convalescence normal. 9 days. Secondary. Jan. 8.	Dec. 21, 1890, V. = 0.2.
37	Female. 61 Amer. Good.	3 years. Good.	Dec. 18, 1890. Graefe. Cocaine. Operation normal. Patient disposed to be hysterical. Eye opened ninth day. No anterior chamber, patient having hit eye forty-eight hours before. Pilocarpine and bandage, as there was tendency to prolapse. Patient discharged twenty-fourth day, with some bulging of iris upwards. 24 days.	Jan. 12, 1891, V. = 0.05.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
38	Male. 63 Amer. Good.	2 years. Good.	Dec. 29, 1890. Graefe. Cocaine. Iridectomy previously done. Convalescence normal. Vision at time of discharge, .2. Feb. 26. .8. 14 days.	Jan. 12, 1891, V. = 0.8.
39	Female. 61 Amer. Good.	1 year. Good.	Jan. 5, 1891. Graefe. Cocaine. Operation normal. Three days later cornea universally infiltrated. Old lachrymal affection fifteen years before, infiltrated. A single application of hydrarg bichlor. caused much redness and discharge. Twelfth day panophthalmitis. 25 days.	Jan. 31, 1891, V. = 0.
40	Male. 62 English. Good.	18 months. Good.	Jan. 7, 1891. Graefe. Cocaine. Operation and convalescence normal. 12 days.	Jan. 19, 1891, V. = 1.
41	Male. 59 Canada. Good.	5 years. Good.	Jan. 12, 1891. Græfe. Cocaine. Cortical fluid. Clear pupil. Convalescence normal.	Jan. 26, 1891, V. = 0.1.
42	Female. 55 Irish. Good.	3 years. Good.	Jan. 19, 1891. Graefe. Cocaine. Operation and convalescence normal. Vision at time of discharge, 0.2. 24 days.	Feb. 12, 1891, V. = 0.5.
43	Male. 80 Irish. Fair.	Unripe. Good.	Jan. 19, 1891. Graefe. Cocaine. Cut corneal on account of arcus. Lens sticky, nucleus had to be removed with scoop. No vitreous lost. Eye opened seventh day, pupil blocked. Considerable pain. Wound reopened fourteenth day with rubber spatula and irrigated out considerable cortical, leaving clear pupil. Six days later senile delirium, bandage had to be removed. Pupil small but clear. At time of discharge vision only fingers at 1 metre. March 14, iridectomy, secondary. 56 days.	Mar. 26, 1891, V. = 0.1.
44	Male. 55 Canada. Fair.	2 years. Good.	Jan. 19, 1891. Graefe. Cocaine. Operation and convalescence normal. 30 days.	Feb. 19, 1891, V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic Healing Process. Duration of Treatment.	Vision.
45	Female. 50 Irish. Good.	4 years. Good.	Jan. 22, 1891. Graefe. Cocaine. At time of making iridectomy, patient suddenly moved eye, tearing iris from its attachment. Considerable hemorrhage into anterior chamber. Some pain and swelling during convalescence, and discharge from lachrymal sac. 20 days.	Feb. 11, 1891, V. = 0.5.
46	Female. 43 Irish. Good.	2 years. Good.	Jan. 26, 1891. Graefe. Cocaine. Considerable cortical in pupil, removed by irrigation. Convalescence normal. 17 days.	Feb. 12, 1891, V. = 0.6.
47	Female. 61 Amer. Good.	3 years. Good.	Jan 30, 1891. Graefe. Cocaine. Anterior chamber irrigated, leaving clear pupil. Complained of some pain during convalescence. Bandage removed eighth day, pupil clear, but ciliary redness. 13 days.	Feb. 12, 1891, V. = 0 2.
48	Male. 43 Azores. Good.	1 year. Good.	Feb. 2, 1891. Graefe. Cocaine. Operation normal. Patient removed bandage during night of operation; next morning small prolapse of iris; excised. Convalescence normal. 22 days.	Feb. 24, 1891, V. = 0.2.
49	Female. 50 Irish. Good.	5 years. Good.	Feb. 5, 1891. Graefe. Cocaine. Operation and convalescence normal. 14 days.	Feb. 19, 1891, V. = 0.5.
50	Male. 55 Irish. Poor.	2 years. Good.	Feb. 5, 1891. Graefe. Cocaine. Operation and convalescence normal. Vision time of discharge, 0.2. 15 days.	Feb. 20, 1891, V. = 0.4.
51	Male. 75 Irish. Fair.	3 years. Good.	Feb. 5, 1891. Graefe. Cocaine. Operation normal. Convalescence slow on account of non-union of wound. 23 days.	Feb. 28, 1891, V. = 0.1.
52	Male. 57 Amer. Good.	4 years. Good.	Feb. 9, 1891. Graefe. Cocaine. Normal operation, considerable soft cortical removed by irrigation. Seven days after, pain with œdema of lids. Capsulitis. 26 days.	Mar. 7, 1891, V. = 0.3.
53	Male. 59 Amer. Good.	1 year. Good.	Feb. 20, 1891. Graefe. Cocaine. Operation normal. Good convalescence.	Mar. 6, 1891, V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
54	Male. 59 Canada. Good.	2 years. Good.	Feb. 23, 1891. Graefe. Cocaine. Lens emerged entire; on attempting to irrigate vitreous presented and further interference was suspended; probably very little cortical remained. Normal convalescence. 24 days.	Mar. 19, 1891. V. = 0.2.
55	Female. 65 Irish. Fair.	2 years. Good.	Feb. 28, 1891. Graefe. Cocaine. Operation and convalescence normal. 9 days.	Mar. 9, 1891, V. = 0.2.
56	Male. 58 Amer. Fair.	3 years. Good.	March 13, 1891. Graefe. Cocaine. Operation and convalescence normal. 13 days.	Mar. 26, 1891, V. = 0.8.
57	Female. 65 Irish. Fair.	2 years. Good.	March 13, 1891. Graefe. Cocaine. Operation and convalescence normal. 25 days.	April 7, 1891, V. = 0.3.
58	Male. 66 Amer. Fair.	2 years. Good.	March 14, 1891. Graefe. Cocaine. Operation and convalescence normal. 21 days. Pupil blocked by exudation.	April 4, 1891, V. = perception of light.
59	Male. 57 Amer. Good.	2 years. Good.	March 15, 1891. Graefe. Cocaine. Operation and convalescence normal. 16 days.	Mar. 31, 1891, V. = 0.1.
60	Female. 58 Irish. Fair.	4 years. Good.	March 15, 1891. Graefe. Cocaine. Operation and convalescence normal. Previously convergent eye. 35 days.	April 19, 1891, V. = 0.2.
61	Male. 56 German. Good.	18 months. Good.	March 18, 1891. Graefe. Cocaine. Operation and convalescence normal. 16 days.	April 3, 1891, V. = 0.4.
62	Male. 28 English. Good.	1 year. Traumatic. Good.	March 21, 1891. Graefe. Cocaine. Operation and convalescence normal. Secondary. 17 days.	April 7, 1891, V. = 0.2.
63	Male. 55 Irish. Good.	3 years. Good.	March 21, 1891. Graefe. Cocaine. Operation and convalescence normal. Secondary, March 31. 16 days.	April 6, 1891, V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
64	Male. 46 English. Good.	2 years. Good.	March 24, 1891. Graefe. Cocaine. Operation and convalescence normal. 15 days.	April 8, 1891, V. = 0.3.
65	Female. 64 Irish. Fair.	18 months. Good.	March 24, 1891. Graefe. Cocaine. Normal operation and convalescence. 18 days.	April 11, 1891, V. = 0.4.
66	Female. 58 Irish. Fair.	1 year. Good.	April 6, 1891. Graefe. Ether. Operation and convalescence normal. 14 days.	April 20, 1891, V. = 0.2.
67	Male. 70 Irish. Fair.	2 years. Good.	April 12, 1891. Graefe. Ether. Operation and convalescence normal. 11 days.	April 23, 1891, V. = 0.4.
68	Female. 46 Canada. Good.	1 year. Good.	April 24, 1891. Graefe. Cocaine. Operation and convalescence normal. 17 days.	May 12, 1891, V. = 0.3.
69	Female. 77 Amer. Fair.	3 years. Good.	April 29, 1891. Graefe. Cocaine. Small amount of fluid vitreous escaped. During convalescence prolapse of iris from blow. Iritis followed, with blocked pupil. 36 days.	June 4, 1891, V. = perception of light.
70	Female. 59 Amer. Fair.	2 years. Good.	April 29, 1891. Graefe. Cocaine. Operation and convalescence normal. 14 days.	May 13, 1891, V. = 0.2.
71	Female. 66 Irish. Good.	2 years. Good.	May 5, 1891. Graefe. Cocaine. Operation and convalescence normal. 12 days.	May 17, 1891, V. = 0.5.
72	Male. 79 Amer. Fair.	1 year. Good.	May 6, 1891. Graefe. Cocaine. Patient unruly; constantly disturbing bandage. 13 days.	May 19, 1891, V. = 0.5.
73	Male. 67 Amer. Good.	3 years. Good.	May 13, 1891. Graefe. Cocaine. Normal operation and convalescence. 13 days.	May 26, 1891. V. = 0.8.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
74	Male. 60 Irish. Good.	2 years. Good.	May 15, 1891. Graefe. Cocaine. Operation and convalescence normal. 18 days.	June 2, 1891, V. = 0.4.
75	Male. 65 Amer. Fair.	2 years. Good.	May 15, 1891. Graefe. Cocaine. After lens had been removed patient squeezed eye, causing to escape large amount of fluid vitreous. Iris prolapsed during convalescence. 20 days.	June 4, 1891, V. = 0.1.
76	Female. 74 Amer. Poor.	3 years. Good.	May 15, 1891. Graefe. Cocaine. Operation and convalescence normal. 19 days.	June 3, 1891, V. = 0.7.
77	Female. 67 Irish. Good.	2 years. Good.	May 17, 1891. Graefe. Cocaine. Operation normal. During convalescence iritis for two weeks. 28 days.	June 14, 1891, V. = 0.4.
78	Female. 70 Canada. Good.	4 years. Good.	May 17, 1891. Graefe. Cocaine. Operation and convalescence normal. 14 days.	June 1, 1891, V. = 0.4.
79	Male. 19 Amer. Good.	Congenital. Good.	May 20, 1891. Graefe. Cocaine. Iris prolapsed during convalescence. Excised. 14 days.	June 3, 1891, V. = 0.7.
80	Male. 65 Amer. Good.	2 years. Good.	May 1, 1891. Graefe. Cocaine. Operation and convalescence normal. 21 days.	May 22, 1891, V. = 0.9.
81	Male. 72 Irish. Good.	1 year. Good.	May 24, 1891. Graefe. Cocaine. Much soft cortical removed. Capsule opaque. Convalescence normal. 15 days.	June 3, 1891, V. = 0.8.
82	Female. 48 Irish. Good.	2 years. Good.	June 4, 1891. Graefe. Cocaine. Small amount of vitreous escaped with lens. During convalescence some iritis. 14 days.	June 18, 1891, V. = 0.2.
83	Female. 49 Am. Good.	3 years. Good.	June 10, 1891. Graefe. Cocaine. Atropine. Operation and convalescence normal. 22 days.	July 2, 1891, V. = 1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
84	Female. 49 Canada. Good.	5 years. Good.	June 12, 1891. Graefe. Cocaine. Operation normal. Considerable soft cortical. Convalescence good. 12 days.	June 23, 1891, V. = 1.
85	Female. 80 Amer. Good.	3 years. Good.	July 1, 1891. Graefe. Cocaine. Operation and convalescence normal. Retained for secondary. 35 days.	Aug. 6, 1891, V. = 0.3.
86	Female. 59 Amer. Good.	12 years. Good.	July 2, 1891. Graefe. Cocaine. Opaque capsule in pupil. Convalescence normal. To return for secondary operation. 11 days.	July 13, 1891, V. = 0.1.
87	Male. ? Amer. Good.	3 years. Good.	July 11, 1891. Graefe. Cocaine. Operation normal. Opaque capsule in pupil, and incarceration of iris inner side of wound. 14 days. Secondary, Aug. 18.	July 25, 1891, V. = 0.2.
88	Female. 60 Amer. Fair.	7 years. Poor. especially central.	July 13, 1891. Graefe. Cocaine. Lens extracted in capsule. Healing normal. Choroidal changes about macula. 12 days.	July 25, 1891, V. = 0.1.
89	Male. 70 Irish. Good.	18 years. Morgagnian. Good.	July 14, 1891. Graefe. Cocaine. Large amount of fluid vitreous escaped on completion of cut. Capsule opaque and calcareous. Bandage removed. Seventh day considerable injection. Secondary.	Aug. 4, 1891, V. = 0.02.
90	Male. ? English. Good.	5 years. Good.	July 14, 1891. Graefe. Cocaine. Operation and convalescence normal. 10 days.	July 24, 1891, V. = 0.4.
91	Female. 26 Amer. Poor.	7 years. Good.	July 16, 1891. Graefe. Ether. Operation and convalescence normal. 21 days.	Aug. 6, 1891, V. = 0.1.
92	Female. 56 Amer. Good.	3 years. Good.	July 19, 1891. Graefe. Cocaine. Operation and convalescence normal. 26 days. Secondary.	Aug. 14, 1891, V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
93	Male. 56 Amer. Good.	2 years. Immature. Good.	July 16, 1891. Graefe. Cocaine. Considerable cortical remained. 46 days.	Aug. 31, 1891, V. = 0.03.
94	Female. 80 Amer. Good.	2 years. Good.	July 29, 1891. Graefe. Cocaine. Operation and convalescence normal. Secondary, Aug. 19. 24 days.	Aug. 22, 1891, V. = 0.5.
95	Female. 55 Irish. Good.	2 years. Good.	Aug. 3, 1891. Graefe. Cocaine. Operation and convalescence normal. 29 days.	Sept. 2, 1891, V. = 0.1.
96	Male. 55 Sweden. Good.	2 years. Good.	Aug. 8, 1891. Graefe. Cocaine. Operation and convalescence normal. Secondary, Aug. 30. 12 days.	Aug. 20, 1891, V. = 0.5.
97	Female. 60 Amer. Good.	2 years. Good.	Aug. 17, 1891. Graefe. Cocaine. Six days after operation severe iritis with hypopyon, which resulted in completely blocked pupil. Sept. 1 iridotomy performed with success. 27 days.	Sept. 13, 1891, V. = 0.1.
98	Female. 59 Irish. Good.	3 years. Good.	Aug. 17, 1891. Graefe. Cocaine. Operation normal. During convalescence iritis followed by blocked pupil. To return for subsequent operation. 25 days.	Sept. 11, 1891, V. = perception of light.
99	Male. 70 Amer. Good.	2 years. Good.	Aug. 20, 1891. Graefe. Cocaine. Operation and convalescence normal. 9 days.	Aug. 29, 1891, V. = 0.5.
100	Female. 70 Irish. Good.	3 years. Good.	Aug. 28, 1891. Graefe. Cocaine. Operation and convalescence normal. 21 days.	Sept. 18, 1891, V. = 0.2.

SIMPLE EXTRACTIONS.

1	Female. 42 Amer. Good.	8 years. Good.	Sept. 3, 1891. Simple extraction. Cocaine. Operation and convalescence normal, Sept. 18, 1890. 15 days.	V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
2	Male. ? Amer. Good.	6 months. Traumatic. Good.	Dec. 22. 1891. Simple extraction, with removal piece of iron from lens with magnet. Patient struck eye night following operation, which resulted in prolapse of iris. Dec. 24, attempted excision of iris, but patient too nervous, Jan. 10, 1891. 29 days.	V. = 0.1.
3	Male. 73 Amer. Good.	7 years. Good.	March 14, 1891. Simple extraction. Cocaine. Prolapse of iris, day following operation. Excised, April 9, 1891. 26 days.	V. = 0.4.
4	Female. 70 Irish. Good.	2 years. Good.	June 26, 1891. Simple extraction. Cocaine. Eserine, iodoform. Subsequently atropine at each dressing. Secondary, July 12, 1891. 16 days.	V. = 0.8.
5	Female. 79 Amer. Good.	? Good.	July 16, 1891. Simple extraction with cocaine. Eserine. Patient struck eye accidentally day after operation. Chamber not re-established till July 31. Large hernia of iris. Discharged at own request, Aug. 7, 1891. 22 days.	V. = 0.4.
6	Male. ? German. Good.	Traumatic. Good.	Jan. 15, 1891. Simple extraction. Cocaine. Piece of steel extracted with magnet. Vision not taken at time of discharge but counted fingers readily.	
7	Female. 53 Irish. Good.	3 years. Good.	July 29, 1891. Simple extraction. Cocaine. Eserine. Operation and convalescence normal. Aug. 10, 1891. 12 days.	V. = 1.

SIMPLE EXTRACTION, WITH EXCISION OF A CIRCULAR PIECE OF IRIS.

1	Female. 28 Irish. Good.	6 months. Good.	Oct. 8, 1890. Simple extraction, with excision of small circular piece of iris. Cocaine. Atropine. Healing normal. 8 days. Oct. 16, 1890.	V. = 1.
2	Male. 70 Irish. Fair.	18 months. Good.	Oct. 10, 1890. Modified simple extraction. Cocaine, Atropine. Healing normal. Pupil well dilated. 20 days. Oct. 30.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
3	Male. 72 Amer. Good.	2 years. Good.	Oct. 11, 1890. Modified simple extraction. Cocaine. Atropine. Healing normal. 14 days. Oct. 25.	V. = 0.2.
4	Female. 69 Irish. Poor.	2 years. Good.	Oct. 15, 1890. Modified simple extraction. Cocaine. Atropine. Operation normal, suffering from ozæna. During convalescence, constantly pushing up her bandage, and wiping her eye with a soiled handkerchief. Fifth day slight œdema of lids and discharge. Sixth day purulent. This was followed by corneal abscess. 50 days. Dec. 4.	V. = 0.
5	Female. 65 Scotch. Good.	2 years. Good.	Nov. 10, 1890. Modified simple extraction. Cocaine. Atropine. Healing normal. Pupil fully dilated. 12 days. Nov. 22.	V. = 0.4.
6	Female. 55 Irish. Good.	1 year. Good.	Nov. 12, 1890. Modified simple extraction. Cocaine. Atropine. Healing normal. Fully dilated pupil. 26 days. Dec. 8.	V. = 0.4.
7	Male. 61 Amer. Good.	2 years. Good.	Nov. 13, 1890. Modified simple extraction. Cocaine. Atropine. Healing normal, with opaque capsule in pupil. Secondary operation. 13 days. Nov. 26.	V. = 0.2.
8	Female. 66 Amer. Fair.	5 years. Good.	Nov. 15, 1890. Modified simple extraction. Cocaine. Atropine. Healing normal. Fully dilated pupil. 18 days. Dec. 3.	V. = 0.2.
9	Female. ? Amer. Fair.	2 years. Good.	Nov. 20, 1890. Modified simple extraction. Cocaine. Atropine. Healing normal. Fully dilated pupil. 22 days. Dec. 12.	V. = 0.3.
10	Female. 64 Canada. Good.	11 years. Good.	Nov. 22, 1890. Modified simple extraction. Cocaine. Atropine. Healing normal. Fully dilated pupil. 13 days. Dec. 5.	V. = 0.2.
11	Male. 60 English. Good.	2 years. Good.	March 9, 1891. Modified simple extraction. Cocaine. Atropine. Healing normal. Fully dilated pupil. 14 days. March 24.	V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
12	Male. 61 Greek. Good.	18 months. Good.	March 28, 1891. Modified simple extraction. Cocaine. Atropine. Healing normal. Fully dilated pupil. 24 days. April 21.	V. = 0.4.
13	Male. 62 English. Fair.	2 years. Good.	April 1, 1891. Modified simple extraction. Cocaine. Atropine. Healing normal. Fully dilated pupil. 23 days. April 24.	V. = 0.4.
14	Female. 56 Amer. Good.	2 years. Good.	April 17, 1891. Modified simple extraction. Cocaine. Atropine. Healing normal. Fully dilated pupil. 18 days. May 5.	V. = 0.4.
15	Female. 69 Amer. Good.	8 years. Good.	May 18, 1891. Modified simple extraction. Cocaine. Atropine. Healing normal. Fully dilated pupil. 14 days. June 1.	V. = 0.8.

SUCTION.

1	Male. 38 Amer. Good.	Traumatic. Good. Foreign body in globe.	Sept. 3, 1891. Suction. Cocaine. Convalescence normal, Sept. 8. 5 days.	Oct. 14, 1890, V. = 0.4.
2	Male. 38 Irish. Good.	Traumatic. Good.	Sept. 22, 1891. Suction. Cocaine. Convalescence normal, Sept. 27. 4 days. $\frac{5}{60}$.	Oct. 13, 1890, V. = 1.
3	Male. 41 Amer. Good.	Traumatic. 1 week. Good.	Sept. 10, 1890. Suction. Cocaine. Healing normal, Sept. 15. 5 days.	Oct. 7, 1890, V. = 0.3.
4	Male. 25 Canada. Good.	Traumatic. 10 years. Good.	Sept. 17, 1890. Suction. Cocaine. Convalescence normal, Sept. 22. 5 days.	Sept. 22, 1890, V. = 0.2.
5	Female. 19 Irish. Good.	Traumatic. 2 months. Good.	Sept. 26, 1890. Suction. Cocaine. Convalescence normal, Oct. 9. 13 days.	Nov. 22, 1890, V. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
6	Male. 55 Amer. Good.	Traumatic. 4 weeks. Good.	Oct. 9, 1890. Suction. Cocaine. Convalescence normal. Oct. 18. 9 days.	Jan. 21, 1891, V. = 0.2.
7	Male. 23 Irish. Good.	Traumatic. 2 weeks. Good.	Nov. 12, 1890. Suction. Cocaine. Convalescence normal. Nov. 19. 7 days.	Not taken.
8	Male. 34 Italy. Good.	Traumatic. 4 weeks. Foreign body in lens. Synechiæ.	Dec. 26, 1890. Iridectomy done outwards; lens removed by suction. Foreign body removed with keratome. Jan 5. 10 days.	Jan. 10, 1891, V. = 0.4.
9	Male. 56 Irish. Good.	Traumatic. 4 weeks. Good.	Jan. 5, 1891. No anterior chamber; wound opened with lance knife. No lens matter followed suction. Wound enlarged; scoop used. Jan. 16. 11 days.	Jan. 16, 1891, V. = light. Pupil filled with cortical.
10	Male. 30 Amer. Good.	Traumatic. 4 weeks. Good.	Feb. 25, 1891. Suction. Cocaine. Convalescence normal. Feb. 28. 3 days.	Mar. 12, 1891, V. = 0.3.
11	Male. 15 Amer. Good.	Congenital. Good.	March 15, 1891. Suction. Cocaine Convalescence normal. March 20. 5 days.	Mar. 20, 1891, V. = 0.02.
12	Female. 12 Amer. Good.	Congenital. Good.	March 19, 1891. Suction. Cocaine. After discission. Convalescence normal. March 24. 5 days.	Mar. 24, 1891, V. = 0.2.
13	Female. 7 Amer. Good.	Congenital. Good.	April 6, 1891. Suction. Ether. Previous discission. Convalescence normal. April 22. 16 days.	Apr. 22, 1891, V. = 0.3.
14	Male. 24 Irish. Good.	Congenital. Good.	April 20. 1891. Suction. Ether. Previous discission. Convalescence Normal. May 12. 38 days.	May 12, 1891, V. = 0.2.

EAR DEPARTMENT.

The Board of Aural Surgeons respectfully present the following report to represent in a measure the work of their department during the year ending Sept. 30, 1891. It has been the privilege of those employed in this work to begin anew in the new hospital building so generously provided by the managers, and it gives all pleasure and much satisfaction to note that their labors are being appreciated by the public. The fact that the hospital building is most fully equipped and is adapted for all the needs of an Ear Infirmary will be a source of satisfaction to those who have labored so assiduously to supply it.

E. D. SPEAR, M. D.,
For the Board of Aural Surgeons.

STATISTICS OF DISEASES OF EAR PATIENTS.

Oct. 1, 1890, to Oct. 1, 1891.

Morbi Auris Externæ.

Auriculæ — Cutis.

Inflammationes.

	Males.			Females.		
	R.	B.	L.	R.	B.	L.
Abscessus auriculæ	1	0	0	1	0	1
" lobuli	0	0	2	1	0	2
Eczema vesiculosum	1	0	2	1	2	1
" rubrum	0	0	0	1	0	0
" squamosum	2	4	1	3	1	0
Fissura lobuli	0	0	0	0	0	1
Herpes zoster	1	0	0	0	0	0
Intertrigo	1	0	0	0	0	0

Inflammationes, Perichondrii et Cartilaginis.

Hæmatoma idiopathicum	1	0	1	0	0	0
" traumaticum	0	0	1	0	0	1

Neoplasmata.

Enchondroma	1	0	0	0	0	0

Meatus — Cutis.

Anomaliæ secretionum.

Accumulatio ceruminis	135	205	139	100	111	89

Inflammationes.

Abscessus	4	0	2	7	3	7
Contractio membranosa	0	1	0	0	0	0
Eczema vesiculosum acutum vel chronicum	6	3	1	3	2	1
Eczema squamosum	3	3	3	1	15	2

	Males.			Females.		
	R.	B.	L.	R.	B.	L.
Otitis externa diffusa acuta	15	11	8	12	6	12
" " " chronica	2	7	3	2	3	6
" " follicularis vel circumscripta	27	2	14	25	5	19
Pruritus	1	0	0	0	0	0
Trauma directa	3	0	4	1	0	1
Corpora adventitia.						
Animalis	3	1	4	2	0	4
Inanimalis	6	1	4	5	0	3
Deformitates.						
Atresia congenita	1	0	0	0	0	1
Meatus — Ossis.						
Hyperostosis circumscripta	0	0	0	1	0	0
Morbi Auris Mediæ.						
Membranæ Tympani.						
Trauma directa, ecchymosis	2	0	1	0	0	0
" " perforatio	0	0	1	0	0	0
" " ruptura	0	0	1	0	0	1
" indirecta, ex ictu aërio	0	0	1	0	0	1
" " ex vi opposita . . .	1	0	0	0	0	0
Tympani, Tubæ Eustachii, et Mastoidei.						
Otitis catarrhalis secernens	10	21	8	8	16	8
" " " mucosa acuta,	9	13	8	4	6	7
" " " " chronica,	22	62	16	37	21	12
" " " serosa acuta .	4	0	2	3	0	2
" " " " chronica,	3	7	3	4	5	2
" " " " acuta ex tuba,	8	11	2	0	7	4
" " adhæsiva ex secernente,	17	21	15	11	13	17
" " " insidiosa . .	18	17	10	21	36	14
" " " cum morbo labyrinthi .	4	3	1	3	3	0
" media acuta simplex	89	48	87	44	36	77
" " " cum perforatione . .	40	19	32	46	14	38

	Males.			Females.		
	R.	B.	L.	R.	B.	L.
Otitis media acuta cum bulla membranæ tympani . . .	4	0	5	2	0	2
" " " " ostitide mastoidea,	6	0	5	7	1	2
" " suppurativa acuta	26	7	13	15	10	16
" " " chronica . . .	45	29	46	29	18	44
Otitis media suppurativa chronica cum perforatione	12	9	11	8	9	13
Otitis media suppurativa chronica cum carie ossiculæ	1	0	0	0	0	2
Otitis media suppurativa chronica cum carie meatus	1	0	2	0	0	1
Otitis media suppurativa chronica cum granulatione meatus	3	2	1	1	4	2
Otitis media suppurativa chronica cum granulatione membranæ tympani . .	2	3	4	2	2	4
Otitis media suppurativa chronica cum granulatione tympani	23	8	14	15	10	11
Otitis media suppurativa chronica cum exostose circumscripta	0	0	1	0	0	0
Otitis media suppurativa chronica cum polypo tympani	15	5	20	17	3	18
Otitis media suppurativa chronica cum ostitide mastoidea.	2	0	3	2	0	1
Otitis media suppurativa chronica cum periostitide mastoidea	5	0	6	2	0	5
Otitis media suppurativa chronica cum carie mastoidea	1	1	4	0	0	4
Effectus otitidis mediæ suppurativæ . .	38	37	36	50	42	45
Effectus otitidis mediæ suppurativæ cum perforatione.	3	0	2	0	3	0
Effectus otitidis mediæ suppurativæ cum perforatione conglutinata	11	5	11	4	4	7
Effectus otitidis mediæ suppurativæ cum carie mastoidea et abscessu cervicis .	1	0	0	1	0	0
Effectus otitidis mediæ suppurativæ cum morbo labyrinthi	1	0	0	0	0	1

Neuroses Auris Mediæ.

Sensoriæ.

Otalgia neuralgica	7	4	5	5	6	8
" dentalis	9	2	1	6	5	11

Morbi Labyrinthi et Acustici.

	Males.			Females.		
	R.	B.	L.	R.	B.	L.
Concussio labyrinthi	1	2	0	0	0	1
Hyperæthesia	1	0	0	0	1	1
Labyrinthitis chronica	0	1	0	0	0	1
Morbus acustici	1	0	0	0	1	0
Propriæ notæ Menière	0	7	0	0	6	0

Surditas et Mutitas.

Surditas senilis	0	2	1	0	1	2
" totalis acquisita ex meningitide	0	4	0	0	4	0
" " congenitalis	0	1	0	0	2	0

Miscellaneous Cases.

Unfit	338
No ear disease	20
No diagnosis	18
Referred to other institutions	11
" Eye Department	8
Eloped	7

Morbi et Operationes.

	R.	L.
Auricula, abscessus, incisio	2	2
" hæmatoma, "	0	3
Calvarium, trepanatio	0	1
Cervix, abscessus, incisio	0	1
Lobula " "	4	1
" cystis, remotio	1	2
" fissura, conglutinatio	0	1
Meatus, abscessus, incisio	17	23
" atresia, divulsio	1	1
" corpora adventitia, remotio	5	8
" necrosis, sequestra, "	5	2
" otitis externa diffusa, incisio	3	2
" " " follicularis, incisio	15	11
" et tympanum, polypus, remotio	68	70
Membrana tympani, bulla, remotio	2	3
" " granulatio, remotio	4	2
" " paracentesis	124	124
" " plicotomia	0	1
" " myringodectomia	1	3

	R.	L.
Mastoidea, apertio	16	18
" periostitis, incisio	2	4
Nasus, polypus, remotio	6	2
" septum, exostosis, remotio	2	5
" " scoliosis, "	1	0
Nasus et pharynx, hyperplasia tonsillæ pharyngeæ evulsio	48	0
Ossicula, caries, remotio	3	2
" ankylosis, mobilizatio	0	1
Post auriculam, abscessus, incisio	4	3
Supra " " "	0	1
Tonsillæ hypertrophia, remotio	3	0
Tragus, abscessus, incisio	3	3
Total		640

HOUSE CASES.

From Oct. 1, 1890, to Oct. 1, 1891.

Morbi.

	Males.			Females.		
	R.	B.	L.	R.	B.	L.
Otitis externa follicularis	1	0	0	1	1	1
" " diffusa acuta	0	1	0	1	0	0
" " " chronica	0	1	0	0	0	1
Otitis media acuta simplex	3	1	1	4	0	2
Otitis media acuta cum periostitide mastoidea	0	0	1	2	0	1
Otitis media acuta cum ostitide mastoidea,	4	1	3	6	1	1
" " " " meningitide	0	0	0	0	0	1
" " suppurativa chronica	2	1	2	0	2	1
Otitis media suppurativa chronica cum polypo tympani	0	0	1	2	0	1
Otitis media suppurativa chronica cum carie ossicularum	1	0	0	1	0	1
Otitis media suppurativa chronica cum carie mastoidea	8	0	9	10	0	7
Otitis media suppurativa chronica cum periostitide mastoidea	1	0	3	0	0	1
Otitis media suppurativa chronica cum carie mastoidea et abscessu cervicis	2	0	0	1	0	0
Otitis media suppurativa chronica cum carie mastoidea et thrombosis venæ jugulæ	0	0	0	0	0	1
Otitis media suppurativa chronica cum irritatione meningeale	1	0	0	1	0	2
Otitis media suppurativa chronica cum carie tympani et meningitide	0	0	1	1	0	0
Otitis media suppurativa chronica cum enchondroma mastoidea	1	0	0	0	0	0
Otitis media suppurativa chronica cum hyperostose universale	1	0	0	0	0	0
Otitis catarrhalis mucosa chronica	0	3	0	0	2	0
Otitis catarrhalis mucosa chronica cum morbo labyrinthi	0	0	1	1	0	0
Otitis catarrhalis adhæsiva insidiosa	0	1	0	0	1	0
Propriæ notæ Menière	0	1	0	0	0	0
Morbus acustici	0	1	0	0	0	0
Surditas totalis	0	2	0	0	1	0

Ages of Ear Patients.

	Males.	Females.
Birth to 3 years	101	114
3 to 15 years	405	406
15 to 25 "	654	526
25 to 35 "	539	414
35 to 45 "	356	261
45 to 55 "	214	157
55 to 65 "	181	110
65 to 75 "	72	47
75 to 85 "	13	8
Totals	2,535	2,043

House Patients.

Males	60
Females	60
Total House Patients	120

Out-Patients.

Males	2,535
Females	2.043
Total Out-Patients	4,578

Residents of Boston	2,509
" Massachusetts	1,939
" Maine	44
" New Hampshire	30
" Vermont	10
" Rhode Island	4
" Connecticut	11
" Other States	19
" British Provinces	12
Total	4,578

Occupations of Ear Patients.

Actors	4
Agents	38
Barbers	24
Blacksmiths	36
Bakers	15
Boiler-makers	13
Butchers	8
Carpenters	268
Children	337
Cigar-makers	17
Cooks	13
Clerks	180
Coopers	14
Domestics	212
Dentists	5
Dealers	43
Dressmakers	60
Dyers	13
Engineers	48
Engravers	10
Errand boys	12
Electric work	11
Farmers	96
Firemen	18
Fishermen	63
Gardeners	9
Hatters	5
Harnessmakers	13
Home	613
Hostlers	7
Janitors	13
Laborers	521

Leather workers	17
Mechanics	120
Mill operatives	48
Musicians	9
Metal workers	84
Messengers	5
Masons	32
Nurses	24
Photographers	4
Painters	16
Pedlers	18
Piano workers	6
Printers	9
Policemen	7
Railroad men	12
Rubber workers	32
Roofers	5
School	698
Seamstresses	72
Shoemakers	120
Students	18
Stone-cutters	86
Steam and gas workers	11
Tailors	52
Teamsters	61
Teachers	6
Telegraph operators	6
Upholsterers	8
Waiters	26
Woodworkers	9
Other occupations	218
Totals	4,578

SIXTY-SEVENTH

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

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24 FRANKLIN STREET.
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OFFICERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary,

1892-93.

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EDWARD I. BROWNE, *Secretary*, 53 STATE STREET, BOSTON.

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MICROSCOPISTS AND CURATORS OF THE PATHOLOGICAL CABINET.

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ALEXANDER QUACKENBOSS, M. D. MR. HENRY H. HASKELL.

Aural Interne.

E. A. CROCKET, M. D.

GEORGE STEDMAN, M. D., *Superintendent.*
MARY H. NUGENT, *Matron.*

REPORT OF THE MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1892.

In behalf of the managers we herewith present the report of the surgeons for the year ending Sept. 30, 1892. The total number of new patients applying for treatment was 17,044, made up as follows : —

Eye patients	12,573
Ear patients	4,471

showing an increase during the past year of 540. Of this number 6,805 eye patients and 2,377 ear patients came from Boston, and 5,382 eye patients and 1,988 ear patients came from other parts of Massachusetts, making a total of 16,552 from within the State, while the remaining 492 came mostly from other New England States. Only 143 came from outside of New England. The number of house patients for the year was 1,003 against 853 in 1891, an increase of 150.

The institution is steadily enlarging its sphere of usefulness. Of more than 17,000 patients who have applied for treatment during the year, all but 492 were citizens of Massachusetts.

The Commonwealth, realizing the beneficence of this charity, generously granted our petition for an addition of $5,000 to its annual appropriation to our institution, and the

money, which was very much needed, has been judiciously and economically expended.

While the addition of the new building for the aural department has been of great value, it necessarily involves an increase in our annual expenses. The disbursements for food, nurses, attendants, gas and water are necessarily larger; and the introduction of a ventilating fan and the employment of a night engineer for the boilers, together with increased insurance and other expenses, all require a larger appropriation from the State than we had hitherto been receiving. It has been found necessary during the year to improve our facilities for laundry work, and although the space is somewhat cramped for the purpose, the result is satisfactory, and we are enabled to do the work more promptly and at less cost than under the old system.

Our gifts during the year from outside sources have amounted to less than $2,500. We have received from the estate of the late J. Huntington Wolcott the sum of $1,500 as a permanent fund, the income only of which is to be used for the purposes of the institution. Other contributions during the year amount to $853.33.

It should be remembered that, while the patients who apply for treatment are wholly recruited from the ranks of the poor and needy, in all cases where it is feasible we require house patients, who come to us from other States, to pay board at a rate not exceeding six dollars per week. Sometimes this is paid by patients themselves, and in other cases we collect it from the authorities of the towns from which they come. The total income from house patients during the past year has been $1,200.45, nearly all of which has come from patients from outside of the State. We have furnished to house patients 3,189 weeks' board during the year and have received pay for only 200 weeks, leaving 2,989 weeks' board which has been free to the patients. It

will thus be seen that in proportion to the magnitude and importance of the work of our institution, the income which we receive from paying patients amounts to only a trivial sum.

In conclusion we wish to reiterate our appreciation of the devotion of our eminent surgeons who give their valuable services gratuitously to this worthy cause; and we hope that their generosity may be supplemented by gifts from outside sources. Surely no one who inspects this institution and sees the way in which it is carried on and the amount of humane work which it is doing can fail to appreciate its usefulness.

ARTHUR ROTCH,
CLEMENT K. FAY.
For the Managers.

Resolutions passed by the Board of Managers on the Resignation from the Board of Surgeons of Dr. Derby, Sept. 23, 1892.

"*Voted*, That this Board receives with great regret the resignation of Dr. Hasket Derby, and that the thanks of this Board be tendered to him for his long, faithful and efficient services for thirty years."

A true copy from the records.

Attest,

EDWARD I. BROWNE,
Secretary.

REPORT OF THE SURGEONS.

To The Managers of The Massachusetts Charitable Eye and Ear Infirmary,

For the year ending Sept. 30, 1892.

Gentlemen, — The Surgeons of the Infirmary, herewith submit their report for the year ending Sept. 30, 1892. The whole number of new patients applying for treatment in both departments was seventeen thousand and forty-four.

They were divided as follows : —

Eye Patients	12,573
Ear Patients	4,471

These numbers show the usual annual increase over preceding years and consist chiefly of patients belonging to the State of Massachusetts. In both departments there has been an average daily attendance of two hundred and thirty-five patients.

The extensive alterations and improvements of the Infirmary which were undertaken recently, have been completed and have fully demonstrated the advantages which were to be gained.

The pathological laboratory which was started one year ago is in active operation and has proved itself to be a valuable adjunct in exact diagnosis. There are possibilities for further development in certain directions, which would render it still more useful.

The Surgeons wish to express their thanks to their Assistant Surgeons for their faithful work, and also to express

their appreciation of the endeavors of the Internes and of the careful attention displayed by the Superintendent and Matron.

CLARENCE J. BLAKE,
HENRY W. BRADFORD,
For the Board of Surgeons.

In Memoriam.

Resolutions passed by the Board of Directors, March 9, 1892.

WHEREAS, it has pleased God to take from us our dear friend and associate, DR. ROBERT WILLARD: —

Resolved, That we feel deeply the loss of him who for many years has faithfully and devotedly performed his duties as a member of this staff. We recall his kindness and sympathy, his charity to the poor, and the freedom with which he offered his skill as surgeon and oculist to their relief. We mourn the death of a valued friend, a wise counsellor, a true and upright man.

Resolved, That we most tenderly feel for his family in their affliction, and offer them our heartfelt sympathies.

A true copy from the records.

H. BECKLES CHANDLER,
Secretary.

STATISTICS.

Oct. 1, 1891, to Oct. 1, 1892.

CLASSIFICATION OF PATIENTS, DISEASES, AND OPERATIONS.

House Patients.

Males	467
Females	286
	753

Out Patients.

Males	6,561
Females	6,012
	12,573

Eye Patients.

Residents of Boston	6,805
" other parts of Massachusetts	5,382
" Maine	86
" New Hampshire	118
" Vermont	28
" Rhode Island	31
" Connecticut	21
" Other States	51
" British Provinces	50
" Scotland	1
	12,573

Miscellaneous.

Unfit	749
Eloped	37

Unrecorded	511
No disease	12
Referred to other institutions	59
" " ear department	8
	1,376

OCCUPATIONS.

Agents	67
Bakers	32
Barbers	107
Blacksmiths	151
Bookkeepers	98
Bookbinders	45
Carpenters	532
Clerks	810
Clergymen	27
Dentists	7
Domestics	1,590
Electricians	37
Engineers	71
Farmers	197
Firemen	54
Fishermen	40
Hostlers	92
Laborers	1,504
Leather workers	50
Masons	190
Mariners	98
Mechanics	1,250
Metal workers	193
Milliners	30
Mill Operatives	953
Musicians	18
Nurses	47

Painters	225
Pedlers	156
Pensioners	16
Physicians	4
Photographers	17
Policemen	17
Printers	133
Railroad	147
Saloon keepers	4
Sewing	498
Shoemakers	308
Stenographers	28
Students	100
Stone cutters	661
Tailors	310
Teachers	77
Teamsters	495
Telegraph	11
Tradesmen	207
Watchman	68
Waiters	113
Widows	57
Wood workers	72
Other Institutions	35
Miscellaneous	472
Unrecorded	32
	12,573

Lids.

Abcess	60
Anchyloblepharon	1
Blepharadenitis	467
Burn	22
Chalazion	305

Cuts	13
Cyst	24
Ecchymosis	9
Ectropion	24
Entropion	24
Epicanthus	3
Eczema	28
Epithelioma	12
Foreign body	93
Herpes	6
Hordeolum	57
Lippitudo	5
Molluscum	2
Naevus	3
Oedema	64
Ptosis	22
Pediculus	8
Symblepharon	5
Tear of lid	10
Trichiasis	40
Tumor	19
Verruca	7
	1,318

Lachrymal Apparatus.

Abscess	64
Catarrh lachrymal sac	33
Epiphora and obstruction lachrymal ducts	289
Mucocele	30
Eversion of punctum	4
Dislocated lachrymal gland	2
Lachrymal fistula	3
	423

Conjunctiva.

Burns	29
Chemosis	5
Conjunctivitis, catarrhal	1,952
" diphtheritic	1
" purulent	71
" neonatorum	41
" granular	145
" " with pannus	40
" phlyctenular	244
" traumatic	43
" strumous	10
Cut of	10
Cyst	12
Ecchymosis	82
Foreign body	38
Hyperæmia	9
Hypertrophy	2
Oedema	14
Pinguecula	33
Pterygium	82
Tumor	7
	2,860

Cornea and Sclera.

Abrasion	90
Abscess	22
Anterior staphyloma	10
Burn	16
Foreign body	1,074
Leucoma	304
" inflamed	85
Keratitis simplex	347

Keratitis phlyctenular	143
" interstitial	31
" traumatic	30
" vascular	37
Keratoconus	8
Kerato iritis	11
Lead deposit on cornea	1
Rupture of cornea	1
Ulcer of cornea	638
" " " vascular	46
" " " traumatic	35
" " " serpens	1
Wound	59
Episclerites	35
Foreign body in sclera	5
Rupture of sclera	2
Scleritis	13
Sclero-keratitis	2
Staphyloma of sclera	6
Wound of sclera	10
" in ciliary region	3
	3,065

Iris and Ciliary Body.

Ciliary injection	40
Coloboma iris	5
Hemorrhage anterior chamber	14
Hernia of iris	1
Hypopyon	27
Irido-dialysis	4
" cyclitis	2
Iritis	254
" syphelitic	53
" traumatic	7

Mydriasis	49
Occluded pupil	11
Prolapse of iris	6
Sarcoma	1
Synechia, anterior	28
" posterior	24
Wound, ciliary body	19
	545

Choroid.

Albinism	2
Atrophy.	6
Choroiditis	30
Irido-choroiditis	6
Retino "	5
Rupture choroid	1
Sclerotico-choroiditis, posterior	5
Staphyloma, posterior	36
Glaucoma	51
	142

Lens.

Dislocation of	34
Cataract, mature	192
" capsular	12
" cortical	1
" congenital	10
" cretaceous	6
" incipient	105
" lamellar	1
" posterior polar	15
" traumatic	53
Lenticular opacity	38
	467

Vitreous.

Cholestrine in	2
Hemorrhage into	5
Hyalitis	3
Muscæ-volitantes	23
Opacities	40
	73

Retina.

Hemorrhage into macula	11
Neuro-retinitis	9
Retinitis	14
" albumenurica	2
Glioma of	4
Retinitis pigmentosa	7
Separation	37
	84

Optic Nerve.

Atrophy	57
Neuritis	38
	95

Eyeball and Orbit.

Disorganized globe	12
Exophthalmus	6
Foreign body in globe	4
Inflamed stump	3
Irritable orbit	8
Phthisis bulbi	57
Rupture of globe	3
Tumor of orbit	1
Tumor of globe	2

Hydrophthalmus	3
Micro-ophthalmus	5
Panophthalmitis	1
	55

Refraction and Accommodation.

Asthenopia	22
Astigmatism	1,019
Hypermetropia	1,237
Myopia	214
Emmatropia	51
Paralysis of accommodation	4
Presbyopia	14
Spasm	2
	2,563

Muscular Affections and Neuroses.

Exophoria	9
Esophoria	12
Blepharospasmus	20
Ciliary neuralgia	12
Diplopia	16
Hypherphoria	2
Nictitation	7
Nystagmus	26
Paralysis of facial	11
" third	37
" sixth	2
Strabismus, alternating	19
" Convergens	265
" Divergens	27
Supra-orbital neuralgia	13
	478

Affections of the Percipient Apparatus.

Amblyopia	13
" exabusee	26
Hemianopia	2
Scotoma	7
	48

General Injuries.

Blows and cuts	248
Burns	67
	315

OPERATIONS.

Lids.

Chalazion	74
Entropion, Graefe's operation	3
Excision of cyst	5
" " new growth	5
Grattage	12
Green's operation for trichiasis	18
Other " " "	6
Operation of electrolysis	2
Plastic	4
	129

Conjunctiva.

Desmarre's operation for pterygium	12

Cornea.

Paracentesis for hypopyon	9
Removal foreign bodies	1,078
Sæmisch's operation	13
	1,100

Iris.

Division of anterior synechia	1
Iridectomy for artificial pupil	12
" " glaucoma	6
" " occluded pupil	9
" " prolapsed iris	5
" " leucoma	1
Iris replaced	2
	36

Lens.

Discission of cataract	44
Extraction (Graefe)	94
" (simple)	43
" suction	7
Capsule operations	14
	202

Enucleation.

For disorganized globe	37
" interocular growth	1
" glaucoma	5
" glioma	1
" epithelioma	1
" exophthalmus	1
" anterior staphyloma	8
" hydrophthalmus	2
" herpes zoster ophthalmacus	2
" panophthalmetis	5
	63

Muscles.

Convergent strabismus	73
Advancement of internal rectus	1
" " external "	3
	77

Miscellaneous Operations.

Foreign body anterior chamber	3
" " sclera	2
" " globe (magnet)	3
Abscess lachrymal gland	1
Abcission of prolapse	2
Dissection of symblepharon	1
Tumor lid	1
Abscess orbit	1
Critchetts operation for anterior staphyloma	2
Excision prolapsed vitreous	1
Adhesions	5
Papilloma	2
Granulations removed from orbit	1
Excision of skin O. S.	1
Decision of pupillary exudation	1
	27

Diseases of House Patients.

Anchyoblepharon	1
Astigmatism	2
Atrophy optic nerve	5
Abscess of lid	1
" " orbit	1
" " cornea	14
Burn of "	11
Cataract	151

Cataract, traumatic	13
" secondary	14
" congenital	18
" lamellur	1
Choroiditis	1
Conjunctivitis, catarrhal	4
" granular	33
" " with pannus	13
" phlyctenular	2
" purulent	24
" strumous	6
" diphtheritic	1
Bupophthalmus	1
Dislocated lens	11
Epithelioma lid	5
Eczema	1
Ectropion	6
Episcleritis	1
Exophthalmus	1
Foreign body in cornea	5
" " " anterior chamber	2
" " " globe	2
	351

Glaucoma	16
Glioma	1
Hydrophthalmus	2
Herpes	1
Injury to globe	30
Irido choroiditis	2
" dialysis	2
" cyclitis	4
Iritis, acute	18

Iritis, traumatic	1
" specific	5
Keratitis	37
" phlyctenular	8
" interstitial	6
" vascular	3
Kerato iritis	1
" conus	1
Leucoma	21
Lachrymal abscess	4
Neuritis optic	3
Occluded pupil	5
Panophthalmetis	2
Paralysis third nerve	1
" sixth nerve	1
Phthisis bulbi	31
Ptosis	2
Pterygium	1
Rupture of cornea	5
Separation of retina	7
	221

Staphyloma, anterior	13
" posterior	1
Strabismus, convergent	10
" divergent	11
Sympathetic ophthalmia	4
Trichiasis	13
Tumor of lid	5
" " globe	1
" " orbit	2
Ulcer of cornea	44
" " with hypopyon	10

Ulcer of cornea, with prolapse iris	10
" " traumatic	1
" " rodent	4
Wound in ciliary region	13
" " cornea	27
Miscellaneous	19
Symblepharon	2
Inflamed orbit	1
	184
	221
	351
Total	753

REPORT OF ONE HUNDRED AND TWENTY-EIGHT OPERATIONS

FOR THE

Extraction of Cataract,

PERFORMED AT THE INFIRMARY BY THE OPHTHALMIC STAFF DURING THE YEAR ENDING AUG. 31, 1892.

COMPILED BY HENRY W. BRADFORD, M. D.

During the past year there have been one hundred and twenty-eight operations for the extraction of cataract performed at the infirmary by one of the following methods : —

Method of Von Graefe, modified	94
Method of Simple Extraction	3
Method of Simple Extraction with the excision of a peripheral bit of iris tissue	31

Of the ninety-four extractions by the modified Von Graefe method only eighty-five were really uncomplicated senile cataracts according to the standard generally accepted. The resulting visions are as follows : —

Vision	= 0.8 1	Vision	= 0.1 7
"	= 0.7 2	"	= 1120 1
"	= 0.6 2	"	= 1150 1
"	= 0.5 11	"	= perc. of light . . . 2
"	= 0.4 15	"	= 0.0 3
"	= 0.3 16	"	= not taken 1
"	= 0.2 23		85

The greater proportion of these visions as above presented were taken at the time when the patient was discharged from the Infirmary and it is certain that later trials would give better results from a numerical standpoint. Thirteen secondary operations were performed; usually with the knife-

needle, less frequently with the ordinary decision-needle. In eight of the cases the vision was below 0.1

Case 4. Male, 73. Plastic iritis with opaque membrane in the pupil will account for the low vision of 1120.

Case 6. Male, 65. The operation was done under careful antiseptic precautions. The duration of the cataract was twenty-five years with a subnormal tension and only fair perception and projection. A purulent infiltration of the cornea supervened on the third day under an antiseptic bandage without any known cause of infection. V = 0.0

Case 10. Male, 59. Was very unruly during the operation which was complicated by a prolapse of the vitreous. He was quite restless and removed entirely his bandage at night. A cyclitis supervened necessitating enucleation on the nineteenth day. V. = 0.0

Case 16. Female, 64. Had iritis and hemorrhage during the healing process which resulted in a thick membrane filling the pupillary space and will be benefitted by an operation later. V = 1150.

Case 47. Female, 62. Moved the eye wildly about while the cut was being made. The slightest pressure to aid in expelling the lens caused the vitreous to present and obliged the use of the scoop. V = perception of light.

Case 66. Male, 70. Behaved badly during the operation and on the same day removed the dressing and walked about the ward and continued to be unruly. Panophthalmitis set in without much pain. V. = 0.0

Case 73. Female, 65. Plastic iritis with a thickly organized membrane as a result which admits of a secondary operation with a strong probability of improvement. V.=p. 1.

Case 82. Female, 73. Everything went on well until the third day when acute mania developed and she was removed from the Infirmary. It was impossible to determine the vision owing to the mental condition. V. not taken.

In only a few instances were attempts made to raise the vision by sphero-cylinders as the patients do not usually receive their glasses until several weeks have elapsed, the longer and more critical examination being deferred till later.

The simple extraction was performed on three occasions with resulting visions of 0.1, 0.2 and 015.

The simple extraction with the excision of a very minute portion of the pheriphery of the iris was performed thirty one times with the following results : —

Vision = 1	1	Vision = 0.2	4
" = 0.7	3	" = 0.1	4
" = 0.5	4	" = 2160	1
" = 0.4	4	Died	1
" = 0.3	9		

Cases 15, 17, and 24 were complicated by prolapses of iris which upon being excised progressed rapidly to recovery with ultimate visions of 0.7 2160 and 0.3. Case 25 who died on the twelfth day of uraemic coma gave every reason to expect good vision.

All the operations were done under strict antiseptic precautions and frequently a careful preparation was made the night before by thoroughly washing the lids and adjacent parts with soap and hot water, ether, alcohol, and a solution of the bichloride of mercury and the conjunctival sack was thoroughly flushed out with an antiseptic solution and an antiseptic bandage applied. For anæsthesia a four per cent solution of cocaine was used on every occasion. The after treatment was carried out with the utmost care.

STATISTICS OF CATARACT EXTRACTIONS, WITH IRIDECTOMY, FOR THE YEAR ENDING AUG. 31, 1892.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	Female. 61 Canada. Good.	1 year. Normal.	Sept. 1, 1891. Left. Graefe. Cocaine. Operation normal in every way. Small amount of cortical. Normal healing. 11 days.	Sept. 9, 1891, V. = 0.2
2	Male. 30 Canada. Good.	Traumatic. 11 years. Normal.	Sept. 5, 1891. Right. Graefe. Cocaine. Lens small and shrunken. Struck the eye three nights after operation. Hyphaema. Atropine. 15 days.	Sept. 20, 1891, V. = 0.1.
3	Female. 57 Amer. Good.	4 years. Normal.	Sept. 8, 1891. Right. Graefe. Cocaine. Operation normal. Healing without incident except a slight iritis with few adhesions. 26 days.	Oct. 2, 1891, V. = 0.2.
4	Male. 73 Amer. Good.	4 years. Normal.	Sept. 9, 1891. Right. Graefe. Cocaine. Much opaque capsule. Sept. 10, considerable cortical; opacity of post-capsule. Oct. 2, large opacity of capsule. 23 days.	Oct. 2, 1891, V. = $\frac{1}{20}$.
5	Male. 57 Amer. Good.	2 years. Normal.	Sept. 9, 1891. Left. Graefe. Cocaine. Very small iridectomy. Sept. 18, some cortical unabsorbed; slight conjunctivæ hyperæmia. 17 days.	Sept. 25, 1891, V = 0.5.
6	M 65 Eng. Good.	25 years. Only fair. Tension subnormal.	Sept. 15, 1891. Graefe. Cocaine. After the corneal incision the eye was very flaccid. Operation under antiseptic precautions. Sept. 17, purulent infiltration of cornea commencing, and cornea sloughed notwithstanding energetic antiseptic procedure. 10 weeks.	Nov. 28, 1891, V. = 0.0.
7	Female. 75 Irish. Good.	2 years. Normal.	Sept. 15, 1891. Graefe. Cocaine.	Oct. 10, 1891, V. = 0.3.
8	Female. 65 Amer. Good.	2 years. Normal.	Sept. 20, 1891. Graefe. Cocaine. Healing proceeded without any mishap.	Sept. 30, 1891, V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
9	Male. 73 Amer. Good.	8 years. Poor.	Sept. 22, 1891. Graefe. Cocaine. (Eye glaucomatous.) Eye healed well.	V. = $\frac{1}{40}$.
10	Male. 59 German. Fair.	2 years. Normal.	Sept. 21, 1891. Graefe. Cocaine. Vitreous presented as soon as the cut was completed, and large mass of vitreous removed after extraction of lens. Patient behaved badly — tore off bandage. Cyclitis. Oct. 10, 1891, enucleation. 21 days.	Oct. 15, 1891, V. = 0.
11	Female. 69 Irish. Good.	2 years. Normal.	Sept. 20, 1891. Graefe. Cocaine. The healing has been attended with considerable pain. 21 days.	Oct. 9, 1891, V. = 0.5.
12	Female. 57 Irish. Good.	4 years. Normal.	Sept. 27, 1891. Graefe. Cocaine. The healing proceeded without pain or irritation. Oct. 9, 1891, eye quiet; much opaque capsule. Secondary with Knapp needle knife. 19 days.	Nov. 16, 1891, V. = 0.1.
13	Male. 60 Irish. Good.	2 years. Normal.	Oct. 3, 1891. Graefe. Cocaine. Recovery uninterrupted. 13 days.	Oct. 16, 1891, V. = 0.6.
14	Female. 79 Irish. Good.	3 years. Normal.	Oct. 5, 1891. Graefe. Cocaine. Healing without unusual incident. 21 days.	Oct. 26, 1891, V. = 0.3.
15	Female. 66 Canada. Good.	3 years. Normal.	Oct. 12, 1891. Graefe. Cocaine. Operation the usual one, with small iridectomy. Healing not complicated. 21 days.	Nov. 9, 1891, V. =0.4.
16	Female. 64 Canada. Good.	1½ years. Normal.	Oct. 13, 1891. Graefe. Cocaine. Operation normal. Oct. 20, 1891, healing has been marked by considerable pain; eye quite red; pupil small and partially filled with membrane and blood clot. 28 days.	Nov. 14, 1891, V. = $\frac{1}{50}$.
17	Female. 49 Amer. Good.	1 year. Normal.	Oct. 16, 1891. Graefe. Cocaine. Operation normal. Healing process without incident. 14 days.	Nov. 1, 1891, V. = 0.5

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
18	Female. 57 Irish. Good.	2 years. Normal.	Oct. 18, 1891. Graefe. Cocaine. Operation without incidents. Oct. 25, patient struck her eye, causing large hemorrhage into anterior chamber. Nov. 2, no pain but considerable ciliary redness. 28 days.	Nov. 16, 1891, V. = 0.2.
19	Male. 54 Eng. Good.	1 year. Normal.	Oct. 16, 1891. Graefe. Cocaine. Operation normal. Nov. 2, 1891, no pain since operation. 12 days.	Oct. 28, 1891, V. = 0.2.
20	Female. 69 Irish. Good.	2 years. Normal.	Oct. 19, 1891. Graefe. Cocaine. Operation normal. Healing complicated with pain. 21 days.	V. = 0.5.
21	Female. 54 Ireland. Good.	16 years. Normal.	Oct. 20, 1891. Graefe. Cocaine. Escape of small amount of vitreous. Nov. 2, eye quiet with considerable opaque membrane in pupil. 15 days.	Nov. 4, 1891, V. = 0.2.
22	Female. 56 Ireland. Good.	2 years. Normal.	Oct. 21, 1891. Graefe. Cocaine. Healing with accident. 13 days.	Nov. 3, 1891, V. = 0.3.
23	Male. 62 Ireland. Good.	1 year. Normal.	Oct. 23, 1891. Graefe. Cocaine. Nov. 2, no pain since the operation; conjunctiva red and œdematous. 21 days.	Nov. 13, 1891, V. = 0.2.
24	Female. 70 Ireland. Good.	2 years. Normal.	Oct. 23, 1891. Graefe with cocaine. Operation normal. Healing process not interrupted. 22 days.	Nov. 14, 1891, V. = 0.1.
25	Female. 66 Canada. Good.	5 years. Normal.	Oct. 28, 1891. Graefe. Cocaine. Operation normal. Eye healed with but little pain. 12 days.	Nov. 9, 1891, V. = 0.2.
26	Male. 68 Scotch. Good.	2 years. Normal.	Oct. 28, 1891. Graefe. Cocaine. Operation without incident. Nov. 1, iritis slight. 15 days.	Nov. 10, 1891, V. = 0.5.
27	Male. 70 German. Good.	2 years. Normal.	Oct. 30, 1891. Graefe. Cocaine. Normal healing. Nov. 17, small piece of capsule floating in the anterior chamber. 24 days.	Nov. 23, 1891, V. 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
28	Male. 74 Amer. Good.	11 years. Morgagnian. Normal.	Nov. 1, 1891. Graefe. Cocaine. When capsule was ruptured a large amount of opaque fluid escaped. Normal healing. Nov. 15, 1891, secondary. 15 days.	Nov. 15, 1891, V. = $\frac{4}{50}$.
29	Male. 68 Amer. Good.	3 years. Normal.	Nov. 1, 1891. Graefe. Cocaine. Healing normal. Good opening in pupil. 18 days.	Nov. 18, 1891, V. = 0.2.
30	Female. 59 Amer. Good.	3 years. Normal.	Oct. 27, 1891. Graefe. Cocaine. Nov. 2, 1891, eye quiet; slight prolapse of iris at inner edge of wound. 31 days.	Nov. 27, 1891, V. = 0.3.
31	Female. 42 Amer. Good.	1 year. Normal.	Nov. 3, 1891. Graefe. Cocaine. Patient has a slight epiphora. Nov. 5, 1891, considerable puffiness of conjunctiva, with mucous discharge. Tag of iris in wound and an organized blood clot. 24 days.	Nov. 27, 1891, V. = $\frac{1}{15}$.
32	Female. 67 Canada. Good.	1 year. Normal.	Nov. 3, 1891. Graefe. Cocaine. Healing process pursued the usual course. Nov. 10, eye quiet; good pupil. 15 days.	Nov. 18, 1891, V. = 0.2.
33	Male. 66 Amer. Good.	4 years. Normal.	Nov. 3, 1891. Graefe. Cocaine. Operation normal. Nov. 17. eye quiet, though there is a considerable quantity of opaque capsule. 18 days.	Dec. 19, 1891, V. = 0.3.
34	Female 67 Ireland. Good.	1 year. Normal.	Nov. 7, 1891. Graefe. Cocaine. Healing normal. Somewhat restless; did not seem to affect the healing. 23 days.	Nov. 30, 1891, V. = 0.1.
35	Female. 70 Canada. Good.	1 year. Normal.	Nov. 10, 1891. Graefe. Cocaine. Escape of considerable vitreous after expressing lens. Incarceration of small bit of iris in wound. 21 days.	Nov. 20, 1891, V. = 0.1.
36	Female. 53 Amer.	3 years. Normal.	Nov. 10, 1891. Graefe. Cocaine. Nov. 17, 1891. Eye quiet. 18 days.	Nov. 28, 1891, V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
37	Female. 56 Ireland. Good.	7 years. Normal.	Nov. 13, 1891. Graefe. Cocaine. Large mass of cretaceous capsule left after extraction and removed with iris forceps without loss of vitreous. Normal healing. No atropine used. 14 days.	Nov. 27, 1891, V. = 0.5.
38	Female. 58 Irish. Good.	3 years. Normal.	Dec. 4, 1891. Graefe. Cocaine. Operation normal. Dec. 5, slight pain. Convalescence rapid. 14 days.	Dec. 31, 1891, V. = 0.2.
39	Female. 67 Canada. Good.	2 years. Normal.	Dec. 7, 1891. Graefe. Cocaine. Patient unruly after extraction. Some cortical left as vitreous presented. Convalescence uneventful and rapid. 21 days.	Feb. 18, 1891, V. = 0.2.
40	Female. 53 Canada. Good.	1 year. Normal.	Dec. 10, 1891. Graefe. Cocaine. Much cortical removed before extraction. Patient unruly, but no accident. Healing rapid, with a slight prolapse of iris. 24 days.	Feb. 29, 1891, V. = 0.6.
41	Female. 65 Irish. Good.	6 months. Normal.	Dec. 10, 1891. Graefe. Cocaine. All went smoothly till lens was extracted, when patient squeezed lids, causing vitreous to present. Some cortical left. Convalescence rapid. 15 days.	Jan. 28, 1891, V. = 0.4.
42	Male. 78 Amer. Good.	2 years. Normal.	Dec. 11, 1891. Graefe. Cocaine. Patient restless during operation. Nucleus large, with considerable cortical. Healing rapid. 17 days.	Dec. 28, 1891, V. = 0.2.
43	Male. 49 Irish. Good.	2 years. Percept'n slow Projecti'n fair.	Dec. 13, 1891. Graefe. Cocaine. Large sticky nucleus and soft cortical. Could not count fingers after operation. Normal healing. Some vitreous opacities and retinal detachment. 20 days.	Jan. 17, 1891, V = perception of light.
44	Female. 62 Amer. Good.	1 year. Normal.	Dec. 14, 1891. Graefe. Cocaine. Previous iridectomy up. Large nucleus and small amount of cortical. Healing not unusual. 17 days.	June 27, 1892, V. = 0.7.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
45	Female. 67 Good.	3 years. Normal.	Dec. 17, 1891. Graefe. Cocaine. Iris folded over the knife, and a portion was excised. Iridectomy completed in usual manner. Large nucleus. Much soft cortical. Healing prompt. 20 days.	Feb. 13, 1892, V. = 0.5.
46	Male. 70 Irish. Good.	3 years. Normal.	Dec. 17, 1892. Graefe. Cocaine. Could not roll globe down, requiring fixation during iridectomy. Healing rapid. 14 days.	Dec. 31, 1891, V. = 0.2.
47	Female. 62 Irish. Good.	2 years. Normal.	Jan. 17, 1892. Graefe. Cocaine. Patient unruly, and moved eye suddenly before completion of cut. Escape of vitreous, required use of scoop. Feb. 15, 1892, discharged contrary to advice. 30 days.	Feb. 15, 1891. V. = perception of light.
48	Male. 64 Irish. Good.	5 years. Not fully mature. Counts fingers.	Feb. 8, 1892. Graefe. Cocaine. Some cortical left in. Lavage could not be done as patient would not look down. Healing rapid. 20 days.	Feb. 23, 1892, V. = 0.2.
49	Female. 69 Amer. Good.	2 years. Normal.	Jan. 3, 1892. Graefe. Cocaine. Small iridectomy. Considerable cortical. Course of healing usual. 26 days.	March 1, 1892, V. = 0.5.
50	Female. 54 Eng. Good.	6 years. Normal.	Feb. 27, 1892. Graefe. Cocaine. Lavage of anterior chamber. Operation normal. Not much cortical. Nothing unusual in healing process. 32 days.	April 25, 1892, V. = 0.3.
51	Female. 70 Amer. Fair.	2 years. Normal.	March 1, 1892. Graefe. Cocaine. Operation normal. Healing process normal. 28 days.	April 25, 1892, V. = 0.4.
52	Female. 67 Canada. Good.	3 years. Normal.	Feb. 11, 1892. Graefe. Cocaine. Nothing unusual about the operation or course of healing. 28 days.	March 30, 1892, V. = 0.3.
53	Male. 52 Canada. Good.	2 years. Normal.	Feb. 13, 1892. Graefe. Cocaine. Nothing unusual about the operation or healing. 21 days.	April 30, 1892, V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
54	Male. 62 Amer. Good.	5 years. Normal.	March 13. 1892. Graefe. Cocaine. Operation normal, but flaps do not lie in good apposition. Eye has been red during the whole healing. 16 days.	April 10, 1892, V. = 0.4.
55	Male. 68 Amer. Good.	2 years. Normal.	Feb. 15, 1892. Graefe. Cocaine. Operation without unusual incident. After three days a mild iritis, with tension after atropine. Few adhesions. 28 days.	April 30. 1892, V. = 0.8.
56	Male. 53 Amer. Good.	15 years. Normal.	March 23, 1892. Graefe. Cocaine. Operation normal. Healing rapid. Small bit of capsule in pupil which is round. 15 days.	April 30, 1892, V. = 0.2.
57	Female. 66 Amer. Good.	3 years. Normal.	March 2, 1892. Graefe. Cocaine. Operation normal. Mild form of iritis complicated the healing. Dementia developed, and necessitated sending patient home. 18 days.	April 25, 1892. V. = 0.4.
58	Male. 69 Amer. Good.	3 years. Normal.	March 30, 1892. Graefe. Cocaine. Nothing unusual about the operation or course of healing. 21 days.	May 4, 1892. V. = 0.4.
59	Female. 69 Amer. Good.	2 years. Normal.	April 6, 1892. Graefe. Cocaine. Operation without unusual event. About the ninth day iritis. A prolapse of iris and blood in anterior chamber. Much pain. Probably blow during sleep. 22 days.	May 4, 1892, V. = 0.2.
60	Male. 76 Amer. Good.	4 years. Normal.	April 13, 1892. Graefe. Cocaine. Small iridectomy. Course of healing normal. 18 days.	June 2, 1892, V. = 0 7.
61	Male. 70 Ireland. Good.	2 years. Normal.	April 29, 1892. Graefe. Cocaine. Operation normal. Large nucleus. Rapid healing. Small opacity of anterior capsule. 19 days.	May 30, 1892, V. = 0.2.
62	Male. 65 Eng. Good.	2 years. Normal.	April 22, 1892. Graefe. Cocaine. Small iridectomy. Healing process rapid. 15 days.	May 30, 1892, V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
63	Female. 40 Ireland. Good.	4 years. Normal.	April 2, 1892. Graefe. Cocaine. Operation without incident. Mild iritis and haziness of cornea. 28 days.	June 7, 1892, V. = 0.1.
64	Female. 71 German. Good.	2 years. Normal.	March 30, 1892. Graefe. Cocaine. Operation and healing process characterized by nothing unusual. 17 days.	May 20, 1892, V. = 0.5.
65	Female. Canada. Good.	2 years. Normal.	May 11, 1892. Graefe. Cocaine. Operation normal, and nothing unusual in regard to healing till tenth day, when patient hit eye in night. Blood in anterior chamber. 20 days.	June 22, 1892, V. = 0.3.
66	Male. 70 Ireland. Good.	3 years. Normal.	May 7, 1892. Graefe. Cocaine. Patient very unruly during operation and convalescence. Panophthalinitis. 29 days.	June 3, 1892, V. = 0.0.
67	Female. 30 Sweden. Good.	6 years. Normal.	June 1, 1892. Graefe. Cocaine. Operation and after healing in every way normal. 18 days.	July 10, 1892, V. = 0.4.
68	Male. 55 Ireland. Good.	Indefinite history of duration. Morgagnian. Normal.	June 6, 1892. Graefe. Cocaine. At termination of corneal cut patient squeezed and dislocated lens. Scoop. Anterior chamber established by end of first week. June 22, eloped. 16 days.	June 16, 1892, V. = perception of light.
69	Female. 78 Amer. Good.	2 years. Normal.	June 7, 1892. Graefe. Cocaine. Nothing unusual during operation. During second week a low form of dilirium developed which lasted about one week. Some capsule in pupil. 17 days.	July 5, 1892, V. = 0.3.
70	Female. 49 Ireland Good.	3 years. Normal.	June 2, 1892. Graefe. Cocaine. During the cut the iris was pushed before the knife and cut. No iridectomy was made. Healing proceeded with moderate injection. Much capsule. 25 days.	June 27, 1892, V. = 0.1.
1	Female. 67 Ireland. Good.	2 years. Normal.	June 2, 1892. Graefe. Cocaine. Operation and healing without incident till ninth day when iritis was noticed. 25 days.	June 27, 1892, V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
72	Female. 63 Ireland. Good.	2 years. Normal.	June 9, 1892. Graefe. Cocaine. Operation and healing normal till fifth day when iritis set in. 21 days.	July 10, 1892, V. = 0.4.
73	Female. 65 Ireland. Good.	3 years. Normal.	June 9, 1892. Graefe. Cocaine. June 26, anterior chamber re-established for first time. Considerable yellowish white material in papillary opening. 38 days.	July 17, 1892, V = perception of light.
74	Male. 63 Canada. Good.	2 years. Normal.	June 22, 1892. Graefe. Cocaine. Patient had persistent epiphora and chronic conjunctivitis which did not affect the healing. 14 days.	July 25, 1892, V. = 0.3.
75	Male. 74 Amer. Good.	2 years. Normal.	June 16, 1892. Graefe. Cocaine. Normal convalescence.	Aug. 22, 1892, V. = 0.3.
76	Male. 83 Amer. Good.	2 years. Normal.	June 20, 1892. Graefe. Cocaine. Operation and healing normal till beginning of second, when iritis supervened.	July 6, 1892, V. = 0.3.
77	Female. 60 Ireland. Good.	2 years. Normal.	June 20, 1892. Graefe. Cocaine. Iritis supervened eighth day. 18 days.	July 23, 1892, V. = 0.3.
78	Female. 65 Canada. Good.	2 years. Normal.	June 20, 1892. Graefe. Cocaine. Everything satisfactory till eighth day, when an iritis was noticed. 21 days.	July 1, 1892, V. = 0.4.
79	Male. 65 Canada. Good.	2 years. Normal.	June 25, 1892. Graefe. Cocaine. Both operation and healing satisfactory. 15 days.	Aug. 25, 1892, V. = 0.4.
80	Female. 58 Ireland. Poor.	8 years. Normal.	June 29, 1892. Graefe. Cocaine. Operation as usual, but followed by poor appetite and vomiting. 22 days.	July 20, 1892, V. = 0.2.
81	Male. 62 Ireland. Good.	3 years. Normal.	June 26, 1892. Graefe. Cocaine. Lens extracted in its capsule without loss of vitreous. Wound not closed till the seventh day. 13 days.	Aug. 25, 1892, V. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
82	Female. 73 Ireland. Good.	2 years. Normal.	June 28, 1892. Graefe. Cocaine. Nothing unusual till the third day, when acute mania developed. Was removed home contrary to advice. 13 days.	V = not taken owing to mental condition.
83	Male. 64 Amer. Good.	2 years. Normal.	June 29, 1892. Graefe. Cocaine. Operation and healing without incident. 15 days.	July 10, 1892, V. = 0.5.
84	Male. 58 Amer. Good.	2 years. Normal.	June 30, 1892. Graefe. Cocaine. Normal to tenth day, when wound opened and blood appeared in anterior chamber. Iritis. Eye injected for some weeks and became white, thick membrane. 47 days.	Aug. 15, 1892, V. = 0.2.
85	Male. 64 Amer. Good.	8 years. Normal.	July 2, 1892. Graefe. Cocaine. Normal till eighth day, when slight vascularity appeared around the cut. 18 days.	July 20, 1892, V. = 0.4.
86	Male. 57 Amer.	2 years. Normal.	July 9, 1892. Graefe. Cocaine. Nothing unusual. 11 days.	Sept. 10, 1892, V. = 0.4.
87	Female. 50 Ireland. Good.	2 years. Normal.	July 13, 1892. Graefe. Cocaine. Nothing unusual about operation or process of healing. 11 days.	July 24, 1892, V. = 0.3.
88	Male. 81 Amer. Good.	3 years. Normal.	July 21, 1892. Graefe. Cocaine. Operation and healing normal. 18 days.	Aug. 8, 1892, V. = 0.4.
89	Male. 82 Ireland. Good.	1 year. Normal.	Aug. 5, 1892. Graefe. Cocaine. Nothing unusual about operation or healing. 13 days.	Sept. 1, 1892, V. = 0.4.
90	Female. 25 Ireland. Good.	1 year. Normal.	Aug. 12, 1892. Graefe. Cocaine. Operation and healing uneventful. 17 days.	Sept. 10, 1892, V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
91	Female. 64 Ireland. Good.	2 years. Normal.	August 7, 1892. Graefe. Cocaine. Operation and healing process characterized by nothing unusual. 23 days.	Sept. 20. 1892, V. = 0.3.
92	Female. 63 Ireland. Good.	2 years. Normal.	Aug. 25, 1892. Graefe. Cocaine. Operation without incident and convalescence rapid. 13 days.	Sept. 20, 1892. V. = 0.5.
93	Female. 48 Ireland. Good.	1 year. Normal.	Aug. 25, 1892. Graefe. Cocaine. Convalescence rapid. 13 days.	Sept. 7, 1892, V. = 0.4.

SIMPLE EXTRACTIONS.

1	Male. 40 Ireland. Good.	1 year. Normal.	Sept. 11, 1892. Simple extraction. Cocaine. 20 days.	Oct. 2, 1891, V. = 0.2.
2	Female. 73 Amer. Good.	2 years. Normal.	Jan. 17, 1892. Simple extraction. Cocaine. Patient very unruly. Escape of some vitreous. Healing normal, except that there is a cystoid cicatrix. 20 days.	Feb. 8, 1892, V. = 0.1.
3	Female. 52 Amer. Good.	2 years. Normal.	June 23, 1892. Simple extraction. Cocaine. Healing normal. Pupil large, round. Some cortical. 22 days.	July 30, 1892, V. = 0.5.

MODIFIED SIMPLE EXTRACTION.

1	Male. 63 Amer. Good.	1 year. Normal.	Oct. 5, 1891. Modified simple extraction. Cocaine. Convalescence normal till Oct. 21, when patient struck eye at night. Considerable pain followed. 22 days.	Oct. 31, 1891, V. = 0.3.
2	Male. 65 Amer. Good.	2 years. Normal.	Oct. 12, 1891. Modified simple extraction. Cocaine. There was slight keratitis and conjunctivitis at time of operation. Became unsound mentally and had to be sent home. Cornea cleared, but pupil was somewhat occluded. 12 days.	Oct. 24, 1891, V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
3	Female. 46 Canada. Good.	6 years. Normal.	Oct. 19, 1891. Modified simple extraction. Cocaine. Healing rapid. Nov. 17, secondary operation. 35 days.	Nov. 30, 1892, V. = 0.5.
4	Female. 65 Ireland. Good.	2 years. Normal.	Oct. 24, 1891. Modified simple extraction. Cocaine. Patient squeezed eye while cut was being made. Lens and vitreous presented. Healing was satisfactory. There was some opaque capsule remaining. 30 days.	Nov. 24, 1891, V. = 0.2.
5	Male. 66 Amer. Good.	1 year. Normal.	Oct. 24, 1891. Modified simple extraction. Cocaine. Healing rapid. 18 days.	Nov. 8, 1891, V. = 1.0.
6	Male. 61 Ireland. Good.	1 year. Normal.	Oct. 29, 1891. Modified simple extraction. Cocaine. Nothing unusual happened during operation or convalescence. 20 days.	Nov. 18, 1891, V. = 0.1.
7	Female. 48 Eng. Good.	6 years. Normal.	Oct. 29, 1891. Modified simple extraction. Cocaine. Nothing unusual except a slight conjunctivitis. 20 days.	Nov. 21, 1891, V. = 0.3.
8	Male. 64 Amer. Good.	2 years. Normal.	Nov. 14, 1891. Modified simple extraction. Cocaine. Had some iritis, but later pupil dilated without synechia. 14 days.	Nov. 28, 1891, V. = 0.1.
9	Female 60 Amer. Good.	1 year. Normal.	Nov. 16, 1891. Modified simple extraction. Cocaine. Operation complicated with the removal of a large amount of soft cortical. Iritis. Some exudation in pupil with synechia. 36 days.	Dec. 21, 1891, V. = 0.1.
10	Male. 62 Amer. Good.	5 years. Normal.	Nov. 18, 1891. Modified simple extraction. Cocaine. Considerable soft cortical, some of which was left behind. Healing slow, but finally cortical became absorbed. 21 days.	Dec. 5, 1891, V. = 0.4.
11	Female. 54 Amer. Good.	4 years. Normal.	Dec. 3, 1891. Modified simple extraction. Cocaine. Healing complicated with a shallow anterior chamber, and small pupil. On the fourth night struck eye, anterior chamber two-thirds full of blood, which finally absorbed. 15 days.	Feb. 4, 1892, V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
12	Female. 60 Amer. Good.	2 years. Normal.	March 16, 1892. Modified simple extraction. Cocaine. Operation and healing normal. 21 days.	April 20, 1892, V. = 0.3.
13	Male. 63 Ireland. Good.	2 years. Normal.	March 23, 1892. Modified simple extraction. Cocaine. Course of healing normal. Some cortical and synechia. 21 days.	April 30, 1892, V. = 0.5.
14	Female. 50 Amer. Good.	2 years. Normal.	April 1, 1892. Modified simple extraction. Course of healing usual, except for a slight iritis. April 23, secondary operation. 26 days.	May 5, 1892, V. = 0.4.
15	Female. 45 Amer. Good.	3 years. Normal.	March 18, 1892. Modified simple extraction. Cocaine. On the second day a prolapse was snipped off, and an iritis began about the seventh day. April 21, secondary operation. 39 days.	May 16, 1892, V. = 0.7.
16	Female. 68 Ireland. Good.	3 years. Normal.	April 13, 1892. Modified simple extraction. Cocaine. Normal healing process. Discharged with round movable pupil. 15 days.	June 1, 1892, V. = 0.3.
17	Male. 65 Russia. Good.	2 years. Normal.	March 30, 1892. Modified simple extraction. Cocaine. Healing not good. Moderate prolapse of iris. Opaque organized capsule. Patient was unruly throughout. 39 days.	May 27, 1892, V. = $\frac{2}{60}$.
18	Female. 57 Ireland. Good.	3 years. Normal.	April 23, 1892. Modified simple extraction. Cocaine. Operation without incident. Pupil nearly round with slight adhesions. Media clear. 20 days.	May 29, 1892, V. = 0.4.
19	Female. 58 Ireland. Good,	2 years. Normal.	April 24, 1892. Modified simple extraction. Cocaine. Healing without incident. 20 days.	May 25, 1892, V. = 0.5.
20	Male. 74 Amer. Good.	2 years. Normal.	April 24, 1892. Modified simple extraction. Cocaine. Healing normal, with some cortical remaining. Iritis. May 25, discission of capsule.	June 16, 1892, V. = 0.4.
21	Male. 74 Amer. Good.	2 years. Normal.	March 18, 1892. Modified simple extraction. Cocaine. Operation without incident. Pupil round and movable. 29 days.	May 12, 1892, V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
22	Male. 51 Amer. Good.	1 year. Normal.	May 4, 1892. Modified simple extraction. Cocaine. Considerable hemorrhage into anterior chamber after excision of bit of iris. Pupil wide and round. Cortical. 10 days.	May 30, 1892, V. = 0.7.
23	Female. 72 Amer. Good.	1 year. Normal.	May 4, 1892. Modified simple extraction. Cocaine. No complications. Pupil round and movable. Some capsule. 24 days.	July 18, 1892, V. = 0.2.
24	Female. 75 Amer. Good.	2 years. Normal.	May 11, 1892. Modified simple extraction. Cocaine. Lac. fistula. Tension low after removal of lens. Iris tendency to prolapse. May 12, prolapsed snipped off. Healing otherwise normal.	June 15, 1892, V. = 0.3.
25	Female. 60 Ireland. Good.	3 years. Normal.	May 7, 1892. Modified simple extraction. Cocaine. Eye healed well, but after one week uræmic coma developed. Died May 19, 1892.	V. = not taken.
26	Male. 65 Amer. Good.	2 years. Normal.	May 9, 1892. Modified simple extraction. Healing process normal. Considerable capsule. 15 days.	May 24, 1892, V. = 0.1.
27	Male. 64 Ireland.	2 years. Normal.	May 11, 1892. Modified simple extraction. Cocaine. Course of healing normal. 8 days.	May 29, 1892, V. = 0.5.
28	Male. 67 Amer. Good.	2 years. Normal.	May 16, 1892. Modified simple extraction. Cocaine. Healed well without complications. 10 days.	June 9, 1892, V. = 0.3.
29	Male. 54 Ireland. Good.	4 years. Fair.	May 21, 1892. Modified simple extraction. Cocaine. Patient unruly, and operation was completed with difficulty. Healing normal. 31 days.	July 8, 1892, V. = 0 3.
30	Female. 73 Amer. Good.	3 years. Normal.	May 11, 1892. Modified simple extraction. Cocaine. Nothing unusual. Healed well although with some cortical. Pupil round. 15 days.	May 26, 1892, V. = 0.2.
31	Male. 60 Amer. Good.	2 years. Normal.	May 17, 1892. Modified simple extraction. Cocaine. Healing normal. Thin capsule. 12 days.	June 18, 1892, V. = 0 7.

EAR DEPARTMENT.

In presenting their statistical report, the aural surgeons desire to express their appreciation of the advantages afforded by the new building not only for the accommodation of house cases but also for the treatment of a large number of out-patients coming during the morning hours.

The increase in the efficiency in this part of the aural department is shown in the division of labor made possible by the larger clinic room which permits an apportionment of the patients among the different members of the staff on duty and assures to the new cases and to those requiring especial attention the time needed for their proper consideration.

The number of beds available has served also to supplement the work of the out-patient department by making it feasible to admit to the house for short periods acute cases in which it was possible by this means to avert more serious consequences, this being especially the case in the winter and spring terms of service, the average number of beds occupied during the months of March, April, May, and June, being twenty and the largest number of house patients at one time during this time being twenty-six.

The operating room has admirably served the purpose for which it was intended and also for use as a lecture-room under the present rule in accordance with the vote of the Board of Managers, which makes this clinic available for purposes of instruction throughout the year.

The increase in the number of larger operations shows that this institution is being availed of for one of the pur-

poses for which it has been fitted, in the adequate treatment of the more serious forms of ear disease, and emphasises the fact of the need of a better equipment in the way of instruments which shall be at the disposal of all members of the staff, such equipment at present being notably deficient.

The surgeons desire to express their appreciation of the services of the matron and to make special mention of the value of the work done by Dr. Crockett, the present Aural Interne, not only in the discharge of his professional duties but also in the organization of the work in his control.

CLARENCE J. BLAKE.
J. ORNE GREEN.
E. D. SPEAR.

DISEASES OF OUT PATIENTS, EAR DEPARTMENT.

Oct. 1, 1891, to Oct. 1, 1892.

I. Morbi Auris Externæ.

1. Auriculæ.

a. *Inflammationes.*

	R.	B.	L.
Dermatitis erysipelatosa	1	0	1
Eczema acutum vel chronicum	14	7	15
Herpes zoster	0	0	2
Intertrigo	0	1	2
Abscessus tragi	2	0	3
" lobuli	1	0	3
" auriculæ	2	0	0
" infra auriculam	0	0	2
" conchæ	1	0	0
Hæmatoma traumatica	3	0	1
Perichon dritis	0	0	1
Trauma directa	0	0	3

b. *Deformitates.*

Microtia	1	0	1
Fissura lobuli	2	0	0

c. *Neoplasmata.*

Cystis lobuli	1	0	0
" tragi	0	0	1
" preauriculam	1	0	0
" post auriculam	0	0	1
Papilloma auriculæ	1	0	2
Epithelioma auriculæ	1	0	2
Sarcoma auriculæ	1	0	0

2. Meatus a Anomaliæ Secretionum.

a. *Anomaliæ secretionum.*

Accumulatio ceruminis	223	357	261

b. *Inflammationes.*

	R.	B.	L.
Eczema acutum vel chronicum	6	10	6
Otitis externa diffusa acuta	20	17	23
" " " chronica	6	6	3
" " follicularis	41	9	53
Aspergillus	3	2	2
Abscessus meatus	6	2	1
Corpus adventitium animalis	11	0	3
" " inanimalis	8	0	9

c. *Deformitates.*

Fistula auris congenita	0	0	1

d. *Ueoplasmata.*

Papilloma	0	0	1

Meatus -- Ossis.

Exostosis circumscripta	1	0	1

II. Morbi Auris Mediæ.

1. Membranæ Tympani.

Trauma directa	6	0	10
" indirecta	5	0	12

2. Tvmpani, Tubæ Eustachii, et Portionis Mastoideæ.

Otitis catarrhalis secernens acuta	21	35	37
Otitis catarrhalis secernens acuta cum hyperplasia tousillæ pharyngæ	0	3	0
Otitis catarrhalis secernens mucosa acuta	1	2	1
" " " " chronica	54	200	53
Otitis catarrhalis secernens mucosa chronica cum hyperplasia tonsillæ pharyngæ	0	16	0
Otitis catarrhalis mucosa chronica	87	310	86
Otitis catarrhalis mucosa chronica cum hyperplasia tonsillæ pharyngæ	0	24	0
Otitis catarrhalis mucosa chronica cum morbo labyrinthi	2	6	2
Otitis catarrhalis secernens serosa acuta	22	27	19
" " adhæsiva ex secernente	11	41	17
Otitis catarrhalis adhæsiva ex secernente cum hyperplasia tonsillæ pharyngæ	0	3	1

	R.	B.	L.
Otitis catarrhalis adhæsiva insidosa	36	108	39
Otitis catarrhalis adhæsiva insidosa cum morbo labyrinthi	1	3	4
Otitis media acuta simplex	247	72	210
Otitis media acuta simplex cum hyperplasia tonsillæ pharyngæ	4	7	7
Otitis media suppurativa acuta	66	17	159
" " " " cum ostitide mastoidea,	26	0	15
" " " chronica	216	150	212
Otitis media suppurativa chronica cum carie vel ostitide mastoidea	12	0	19
Otitis media suppurativa chronica cum carie ossis temporalis	0	0	1
Otitis media suppurativa chronica cum carie tympani,	1	1	1
" " " " " " meatus .	1	0	2
" " " " " " ossiculæ,	3	0	3
Otitis media suppurativa chronica cum atresia meatus,	0	0	4
Otitis media suppurativa chronica cum polypo tympani	45	7	29
Otitis media suppurativa chronica cum polypo meatus,	8	0	15
Otitis media suppurativa chronica cum granulatione tympani	40	14	40
Otitis media suppurativa chronica cum hyperplasia tonsillæ pharyngæ	1	4	1
Otitis media suppurativa chronica cum carie mastoidea et abscessu cervicis	1	0	1
Otitis media suppurativa chronica cum facial paralysis,	1	0	3
Effectus otitidis mediæ suppurativæ	101	141	120
Effectus otitidis mediæ suppurativæ cum morbo labyrinthi	1	1	1
Effectus otitidis mediæ suppurativæ cum carie mastoidea	1	0	1
Effectus otitidis mediæ suppurativæ cum carie mastoidea hyperplasia tonsillæ pharyngæ	0	3	0

3. Neuroses Auris Mediæ.

Otalgia dentalis	11	5	26
" neuralgica	14	4	15

III. Morbi Labyrinthi et Acustici.

Concussio ex fractura calvaria	2	0	1
Hyperæmia labyrinthi	1	0	0

	R.	B.	L.
Trauma labyrinthi directa vel indirecta	2	0	3
Labyrinthitis	1	2	1
Morbus acustici	3	3	2
Hyperæsthesia acustici	0	0	1
Panotitis	2	2	3
Surditas totalis ex meningitide	0	3	0
" " parotitide	0	2	0
" " fractura calvariæ	0	4	0
" " panotitide	0	9	0
Presbykousis	0	9	0
Propriæ notæ Menière	1	4	1
Otitis interna	2	4	6

Miscellaneous.

Unfit patients	0	251	0
No ear disease	0	23	0
No diagnosis		41	0
Referred to other institutions		12	0
Eloped		17	0

Morbi et Operationes.

Auricula, abscessus, incisio	0	1	2
" hæmatoma idiopathica, incisio	0	1	0
" " tranmatica, "	0	1	2
" epithelioma, amputatio	0	2	4
" " remotio	0	2	0
Calvarium, trepanatio	0	1	0
Cervix, abscessus, incisio	0	1	2
Coucha " "	0	0	1
Fossa temporalis, abscessus, incisio	0	1	0
Lobula, abscessus, incisio	0	1	2
" papilloma, remotio	0	0	1
Inframauricalam, abscessus, incisio	0	1	2
Meatus, abscessus, incisio	1	10	12
" atresia, divulsio	1	0	0
" Corpus adventitium, animalis, remotio	0	1	0
" " " inanimalis, "	0	5	4
" necrosis, remotio	0	3	2
" otitis externa diffusa, incisio	0	1	3
" " " follicularis, incisio	0	19	31
" polypus, remotio	0	12	10
Membrana tympani, bulla, incisio	0	7	4
" paracentesis	7	142	107

	R.	B.	L.
Membrana myringodectomia	1	3	5
Mastoidea, apertio	0	20	23
" necrosis, remotio	0	2	1
Nasus, polypus, remotio	3	7	1
" septum, exostosis, remotio	0	1	4
Nasus, et pharynx	5	0	0
" hyper trophica tonsillæ pharyngeæ, remotio	0	0	37
Ossiculæ, necrosis, remotio	0	8	18
" ankylosis, mobilizatio	0	2	2
" et membrana tympani, remotio	0	9	13
Post auriculam, abscessus, incisio	0	13	6
Pre auriculam, abscessus, incisio	0	1	1
Supra auriculam, abscessus, incisio	0	1	1
Tonsillæ, abscessus, incisio	0	1	1
" hypertrophia, remotio	0	1	2
Tragus, abscessus, incisio	0	2	3
Tympanum, granulatio, remotio	0	3	4
" polypus, remotio	3	49	62
Total number of operations		624	

DISEASES OF AURAL HOUSE PATIENTS.

Oct. 1, 1891 to Oct. 1, 1892.

I. Morbi Auris Externæ.

a. *Auriculæ.*

	R.	B.	L.
Microtia	0	0	1
Epithelioma	3	0	3

b. *Meatus.*

Otitis externa circumscripta	2	1	2
" " diffusa acuta	1	1	7
Corpus adventitium inanimalis	1	0	0

II. Morbi Auris Mediæ.

a. *Membranæ Tympani.*

Trauma directa, ex fracturæ calvariæ	0	0	1

b. *Tympani, Tubæ Eustachii, et Portionis Mastoideæ.*

Angioma tympani	0	0	1
Otitis catarrhalis mucosa chronica	4	13	0
" " adhæsiva insidiosa	1	4	1
Otitis catarrhalis adhæsiva insidiosa cum morbo labyrinthi	0	2	0
Otitis media acuta simplex	12	10	8
" " suppurativa acuta cum carie mastoidea	3	0	1
" " " " " ostitide "	13	1	15
" " " " " meningitide	2	0	1
" " " chronica	0	2	2
" " cum abscessus post auriculam	2	0	2
" " " periostitide mastoidea	1	0	0
" " " ostitide mastoidea	0	0	3
" " " carie "	14	0	30
" " " mastoidea et abscessus fossæ temporalis	0	0	1

	R.	B.	L.
Otitis media suppurativa chronica cum carie mastoideæ abscessus cervicis	0	0	1
Otitis media suppurativa chronica	0	0	1
" " " cum carie mastoidea et thrombosis venæ jugulæ	0	0	1
Otitis media suppurativa cum carie mastoidea et meningitide	0	0	1
Otitis media suppurativa cum cholesteatoma mastoidæ	0	0	1
" " " " carie ossiculae	9	1	15
" " " " " meati et tympani	0	1	7
" " " " "	1	0	1
" " " " irritatione meningeale	0	0	1
Otitis media suppurativa cum granulatione tympani	3	0	3
" " " " polypo tympani			
" " " " facial	1	0	2
" " " " erysipelas	0	0	1
Effectus otitidis mediæ suppurativæ	4	10	7
" " " " cum morbo labyrinthi	0	2	0
Effectus otitides mediæ suppurativæ cum facial paralysis	6	0	1

III. Morbi Labyrinthi et Acustici.

Propriæ notæ Menière	0	0	2

Number of House Patients:

Males	121
Females	129
Total	250

Occupation of Ear Patients.

Agents	37
Bakers	12
Barbers	13
Blacksmiths	37
Bookkeepers	17
Carpenters	78
Children	433
Clergymen	4
Clerks	127
Cigar makers	20
Cooks	24
Dressmakers	57
Dentists	0
Domestics	260
Drivers	50
Engineers	35
Electricians	33
Farmers	35
Firemen	9
Factory hands	208
Fishermen	16
Hatters	1
Home	617
Hostlers	15
Laborers	342
Leather workers	41
Laundresses	29
Masons	37
Mariners	10
Mechanics	42
Machinists	105

Messengers	46
Metal workers	109
Milliners	16
Mill operatives	90
Musicians	8
Nurses	16
Painters	83
Policemen	12
Porters	20
Printers	11
Plumbers	34
Railroad	107
Rubber workers	16
Seamstresses	53
Shoemakers	88
Soldiers	4
Students	9
School	538
Stone cutters	54
Tailors	74
Teachers	13
Teamsters	93
Traders	32
Waiters	25
Woodworkers	58
Other occupations	118
Total	4,471

AGES OF EAR PATIENTS.

Oct. 1, 1891, to Oct. 1, 1892.

Males.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Total.
Birth to 3 years.....	3	4	8	6	18	16	15	12	14	8	14	3	121
3 years to 15 years	25	20	30	31	24	31	43	32	22	39	32	32	361
15 years to 25 years	37	36	56	53	53	56	64	42	58	62	80	37	634
25 years to 35 years	28	33	44	47	43	48	47	67	66	59	43	28	553
35 years to 45 years	22	19	29	33	26	40	20	14	24	36	33	20	316
45 years to 55 years	11	8	16	18	20	22	19	18	17	26	25	22	222
55 years to 65 years	15	10	16	18	16	11	21	12	13	17	19	22	190
65 years to 75 years	8	3	7	2	4	9	8	9	6	6	5	13	80
75 years to 85 years	3	0	0	0	0	2	2	2	1	2	2	3	17
85 years to 95 years	0	0	0	0	0	0	0	0	0	0	0	0	0
Total.....	–	–	–	–	–	–	–	–	–	–	–	–	2,494

Females.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Total.
Birth to 3 years.....	6	4	9	14	10	18	10	12	14	4	12	4	117
3 years to 15 years	24	18	28	22	29	39	44	31	39	38	33	34	379
15 years to 25 years	42	37	39	32	44	43	49	31	55	33	53	50	508
25 years to 35 years	38	26	29	27	29	40	37	35	32	41	58	23	415
35 years to 45 years	17	23	17	11	16	10	35	16	21	21	22	25	234
45 years to 55 years	12	12	7	11	12	19	16	10	19	11	17	21	167
55 years to 65 years	4	8	7	4	6	11	14	17	14	3	13	6	107
65 years to 75 years	1	4	1	2	1	0	5	2	3	5	10	5	39
75 years to 85 years	1	2	0	0	0	1	0	0	0	6	0	1	11
85 years to 95 years	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	–	–	–	–	–	–	–	–	–	–	–	–	1,977

Residences.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Total.
Boston	141	134	173	194	193	214	247	196	228	216	258	183	2,377
Massachusetts	149	118	165	131	151	199	190	159	181	190	204	151	1,988
Maine	2	2	1	1	0	0	1	4	1	1	2	4	19
New Hampshire.....	2	6	2	2	3	0	4	1	2	4	3	1	30
Vermont.....	0	1	1	1	1	1	0	0	1	0	1	1	8
Rhode Island.....	1	2	0	1	1	1	2	0	2	0	0	2	12
Connecticut	0	1	0	0	0	0	1	0	0	0	3	1	6
Other States.....	1	0	0	1	1	0	0	0	3	0	0	2	8
British Provinces.....	1	3	1	0	1	1	4	2	0	6	0	4	23

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Total.
New patients	297	267	343	331	351	416	449	362	418	417	471	349	4,471
Old patients.....	2,037	1,864	1,917	1,841	1,916	2,232	2,332	2,245	2,013	1,408	1,625	1,713	23,143
Totals	2,334	2,131	2,260	2,172	2,267	2,648	2,781	2,607	2,431	1,825	2,096	2,062	27,614

SIXTY-EIGHTH

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

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OFFICERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1893-94.

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ALMON G. MORSE, M. D.

Aural House Officer.

PHILIP HAMMOND, M. D.

Consulting Neurologist to the Aural Department.

JAMES J. BOWEN, M. D.

GEORGE STEDMAN, M. D., *Superintendent.*
MARY H. NUGENT, *Matron.*

REPORT OF THE MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1893.

On behalf of the managers we present the annual reports of the work done during the past year.

We desire to call attention with great satisfaction to the always increasing number of patients who come from other parts of Massachusetts than Boston.

1893	5,672
1888	4,983
1883	3,827

With this in mind, and in order that the Infirmary and its advantages may become as widely known as possible to the inhabitants at large of Massachusetts, we have this year, at the suggestion of the surgeons, invited the New England Ophthalmological Society, whose members include the prominent ophthalmic surgeons of Massachusetts, to hold their meetings at the Infirmary.

The Board calls the special attention of the public to the increasing number of children who are treated for the different diseases of the eye and ear, and who thus may become useful, producing citizens, rather than burdens upon the public charities.

We regret the resignation from our Board of Managers of Edw. I. Browne, secretary for seventeen years, Augustus Lowell, Roger Wolcott, and Harcourt Amory.

We regret that the always increasing work of the Infirmary made it necessary to draw upon our capital during the year for $1,954.66, the excess of expenditures over receipts. This was in part due to the fact that the system of drainage hitherto running into the Charles River was changed at the direction of the city authorities, and now runs into the city sewers. It was also found necessary to improve the system of ventilation of the buildings.

We thank our supporters, and ask for their continued aid, calling to their and the public attention that as our work increases the greater become our expenses.

CHARLES P. CURTIS,
ARTHUR ROTCH,
For the Managers.

"*Voted*, That the resignation of Dr. Henry L. Shaw be accepted and the secretary be directed to communicate to him expressions of great regret at the loss of his services, and the thanks of the Board of Managers for his faithful and efficient services for the past twenty-two years."

A true copy from the records.

Attest,
CHARLES P. CURTIS, Jr.,
Secretary.

REPORT OF THE SURGEONS.

To the Managers of the Massachusetts Charitable Eye and Ear Infirmary,

For the Year ending Sept. 30, 1893.

Gentlemen, — The Surgeons herewith submit their reports for the year ending Sept. 30, 1893.

The numbers of new patients applying for treatment were :

		Last Year.
Eye Patients	13,258	12,573
Ear Patients	4,742	4,471
Totals	18,000	17,044

These numbers show an increase of five per cent in eye patients and of six per cent in ear patients over the numbers of last year.

The average daily attendance for the three hundred and four working days, in the Ophthalmic Department, has been, for *new patients*, a little over forty-one.

Out-patients, old and new, and house-patients, combined, the daily clinic, averaged one hundred and sixty-five.

In the Aural Department the average number of new patients was fifteen.

In the Aural Department the average number of house and new patients was seventy-five.

Making an average aural clinic of ninety cases daily.

Making an average attendance daily in both clinics of two hundred and forty.

The past year has not been marked by any material changes, but has been one of quiet activity and usefulness. The Surgeons notice with pleasure an increased desire on the part of medical students to take advantage of the special opportunities offered by this institution.

The Surgeons would express thanks to the Assistant Surgeons and the Clinical Assistants for their laborious and faithful co-operation, which has materially lightened the work, and to the House Officers, for their earnest and satisfactory attention to the patients. To the Superintendent and Matron thanks are also due for hearty support and willing assistance in their several departments.

B. JOY JEFFRIES.
J. ORNE GREEN,
For the Board of Surgeons.

STATISTICS.

Oct. 1, 1892, to Oct. 1, 1893.

CLASSIFICATION OF PATIENTS, DISEASES, AND OPERATIONS.

House Patients.

Males	503
Females	274
	777

Out Patients.

Males	6,975
Females	6,283
	13,258

Residence.

Residents of Boston	7,223
" other parts of Mass.	5,672
" Maine	89
" New Hampshire	125
" Vermont	28
" Rhode Island	18
" Connecticut	13
" other States	32
" British Provinces	52
" England	2
" Ireland	1
" Wales	1
" South America	1
" West Indies	1
	13,258

Occupation of Eye Patients.

Actors	4
Agents	50
Artists	13
Bakers	26
Barbers	60
Blacksmiths	119
Bookbinders	13
Butchers	4
Carpenters	287
Children	2,699
Cigar-makers	12
Clergymen	10
Clerks	601
Domestics	1,568
Electricians	59
Engineers	53
Engravers	3
Farmers	105
Firemen	31
Fishermen	34
Hatters	18
Home	269
Hostlers	49
Hotel keepers	3
Housewives	1,324
Interpreters	1
Janitors	32
Laborers	1,010
Leather workers	20
Linemen	4
Manicures	2
Mariners	86

Masons	110
Mechanics	543
Medium	1
Messengers	70
Metal workers	240
Milliners	39
Mill operatives	856
Musicians	22
Nurses	62
Painters	108
Peddlers	60
Photographers	9
Physicians	2
Plumbers	56
Policemen	30
Printers	154
Provision Dealers	7
Railroad	159
Rubber workers	2
Saloon Keepers	1
Sewing	469
Shoemakers	179
Sisters of Charity	4
Soldiers	16
Stenographers	46
Stone cutters	256
Students	178
Tailors	203
Teachers	58
Teamsters	197
Telegraphers	21
Tradesmen	79
Upholsterers	30
Waiters	64

Wheelwrights	10
Widows	81
Wood workers	78
From the Workhouse	9
From other Hospitals	18
Other occupations	168
Unrecorded	14
	13,258

Diseases of the Eye.

out patients.

Lids.

Abscess	55
Ankyloblepharon	3
Blepharitis	498
Burns	16
Chalazion	344
Cuts	11
Cysts	15
Dermatitis simplex	2
" medicamentosa	1
" venenata	3
Ecchymosis	6
Ectropion	26
Eczema	43
Entropion	15
Epicanthus	1
Epithelioma	16
Erysipelas	1
Foreign body	113
Herpes	2
Hordeolum	60
Lagophthalmus	5
Lippitudo	4

Milium	1
Molluscum	1
Naevus	3
Oedema	60
Pediculus	6
Pityriasis	1
Ptosis	24
Specific Ulcer	1
Symblepharon	6
Tear of lid	12
Trichiasis	32
Tumor	9
Verruca	7
Xanthelasma	4
	1,407

Lachrymal Apparatus.

Abscess	63
Catarrh of sac	28
Dislocated gland	1
Epiphora and lachrymal obstruction	294
Lachrymal fistula	4
Mucocele	29
	419

Conjunctiva.

Burn	26
Chancre	1
Chemosis	1
Conjunctivitis catarrhal acute	1,920
" " chronic	328
" diphtheritic	5
" follicular	35
" gonorrhœal	21

Conjunctivitis granular	188
" " with pannus	52
" neonatorum	38
" phlyctenular	310
" purulent	56
" strumous	11
" traumatic	70
Cut of	10
Cyst	6
Ecchymosis	69
Foreign body	18
Hyperæmia	8
Hypertrophy	1
Oedema	3
Pinguecula	19
Pterygium	89
Tumor	5
	3,290

Cornea and Sclera.

Abrasion	98
Abscess	11
Anterior staphyloma	28
Burn	63
Foreign body cornea	1,153
" " ant. chamber	3
Herpes	5
Infiltration cornea	1
Keratitis interstitial	34
" phlyctenular	259
" simplex	369
" traumatic	28
" vascular	17
Kerato-conus	2

Kerato-iritis	26
Lead deposit	1
Leucoma	354
" adhaerens	2
" inflamed	23
Rupture cornea	8
Tumor "	1
Ulcer "	557
" serpens	13
" traumatic	74
" vascular	18
Wound of cornea	53
Episcleritis	38
Foreign body in sclera	7
Rupture of sclera	4
Scleritis	28
Sclero-keratitis	11
Staphyloma of sclera	1
Wound of sclera	11
" " ciliary region	12
	3,313

Iris and Ciliary Body.

Ciliary injection	23
Coloboma iris	4
Corectopia	1
Hyphaema	31
Hypopyon	23
Irido-cyclitis	2
" dialysis	10
" donesis	13
Iritis	230
" syphilitic	48
" traumatic	10

Mydriasis	20
" artificial	13
Occluded pupil	20
Pigmented iris	1
Sarcoma	1
Synechia, anterior	50
" posterior	32
Tumor	1
Wound, ciliary body	3
	536

Choroid.

Albinism	1
Atrophy	22
Choroiditis	34
Glaucoma	44
Irido-choroiditis	5
" " sympathetic	5
Retino-choroiditis	7
Sarcoma	1
Sclerotico-choroiditis, posterior	6
Staphyloma, posterior	13
	138

Lens.

Aphakia	1
Cataract ant. pyramidal	5
" capsular	7
" congenital	15
" cortical	1
" cretaceous	5
" incipient	110
" mature	169
" lamellar	2
" morgagnian	1

Cataract post. polar.	10
" traumatic	59
Dislocation lens	22
Lenticular opacity	52
	459

Vitreous.

Cholesterine	1
Foreign body	1
Hemorrhage	9
Hyalitis	3
Muscæ volitantes	26
Opacities	63
	103

Retina.

Changes in macula	7
Embolism, central artery	2
Glioma	2
Hemorrhage into macula	7
Hyperæmia	1
Neuro-retinitis	10
Pigment deposit	2
Retinitis	10
" albumenurica	5
" apoplectica	7
" pigmentosa	2
Separation of	27
	82

Optic Nerve.

Atrophy	65
Neuritis	27
Neuritis retro bulbar	1
	93

Eyeball and Orbit.

Abscess	1
" frontal sinus	2
Disorganized globe	28
Exophthalmus	10
Foreign body	7
Hydrophthalmus	3
Inflamed stump	2
Irritable orbit	6
Microphthalmus	4
Necrosis orbit	1
Panophthalmitis	4
Phthisis bulbi	38
Rupture of globe	1
Tumor of brow	1
" " globe	2
" " orbit	5
	115

Refraction and Accommodation.

Asthenopia	27
Astigmatism	1,239
" Irreg.	70
Emmetropia	104
Hypermetropia	1,191
Myopia	295
Paralysis of accommodation	1
Presbyopia	500
	3,427

Muscular Affections and Neurosis.

Blepharospasmus	23
Chorea	1

Ciliary neuralgia	6
Congenital agraphia	1
Cycloplegia	2
Diplopia	18
General paralysis of the insane	1
Insufficiency of int. recti	5
Nictitation	2
Nystagmus	31
Ophthalmoplegia externa	2
" " and interna	1
Paralysis of facial	9
" third	14
" sixth	17
Photophobia	8
Strabismus, alternating	6
" convergens	240
" divergens	35
" transient	3
Supra-orbital neuralgia	8
	433

Affections of the Percipient Apparatus.

Amblyopia	10
" ex abusa	31
Chromatopsia	1
Hemianopsia	2
Megalopsia	1
Metamorphopsia	3
Scotoma	4
	52

General Injuries.

Blows and cuts	114
Burns	21
	135

Miscellaneous.

Alcoholismus	4
Eloped	42
No disease	15
Referred to other institutions	54
" " Ear Department	11
Unfit	519
Unrecorded	245
	890

SUMMARY OF EYE DISEASES.

Eyelids	1,407
Lachrymal Apparatus	419
Conjunctiva	3,290
Cornea and Sclera	3,313
Iris and Ciliary Body	536
Choroid	138
Lens	459
Vitreous	103
Retina	82
Optic Nerve	93
Lesions of Eyeball and Orbit	115
Refraction and Accommodation	3,427
Muscular Affections and Neuroses	433
Affections of the Percipient Apparatus	52
General Injuries	135
Miscellaneous	890
	14,892

OPERATIONS.

Lids.

Canthoplasty	2
Chalazion	113
Entropion	1

Excision of cyst	6
" " new growth	12
Granulations	4
Green's operations for trichiasis	9
Other " " "	8
Pagenstecher's operations for ptosis	2
Plastic operations	3
	160

Conjunctiva.

Desmarres' operation for pterygium	23
Peritomy	1
	24

Cornea.

Paracentesis hypopyon	4
Removal foreign bodies	1,147
Sæmisch's operations	5
Tumor cornea	3
	1,159

Iris.

Iridectomy for artificial pupil	20
" preparatory to cataract extraction	1
" for glaucoma	9
" " occluded pupil	2
" " prolapsed iris	2
	34

Lens.

Capsule operations	35
Discission of cataract	30
Dislocated lens removed	6
Extraction, Graefe	60

Extraction, simple	19
" " with buttonhole of iris	24
" suction	13
	187

Enucleation.

For abscess globe	1
" anterior staphyloma	5
" disorganized globe	38
" glaucoma	1
" glioma	1
" hyalitis	1
" hydrophthalmus	3
" intra-ocular growth	6
" panophthalmitis	5
" phthisis bulbi	20
" rupture globe	4
" no cause recorded	3
	88

Muscles.

Advancement internal rectus	3
" external "	5
Strabismus convergens	70
" divergens	4
	82

Miscellaneous.

Bowman's on tear passage	21
Abscess of brow	3
" " frontal sinus	3
" " lachrymal duct	2
" " lids	6
" " orbit	1

Foreign body in ant. chamber	3
Evisceration	1
Foreign body in globe	11
Removal recurrent tumor orbit	4
Tumor of conjunctiva	6
" " lid	6
Wounds of lid and face	18
	85

Diseases of House Patients.

Abscess frontal sinus	2
" globe	1
" cornea	3
Agraphia, congenital	1
Ankyloblepharon	1
Amblyopia	1
Astigmatism	1
Atrophy, optic nerve	1
Blepharitis	1
Burn of cornea	10
Cataract, senile	103
" traumatic	42
" secondary	21
" diabetic	3
" congenital	12
" morgagnian	1
Cellulitis, lid	2
" orbit	2
Conjunctivitis, catarrhal	7
" diphtheritic	2
" granular	12
" " with pannus	20
" gonorrhœal	19
" phlyctenular	2

Conjunctivitis, purulent	7
" strumous	1
Cyst of lid, dermoid	3
Dislocation of lens	6
Disorganized globe	12
Ectropion	5
Entropion	3
Episcleritis	2
Epithelioma, cornea	1
" lid	5
Epiphora	1
Foreign body, anterior Chamber	4
" " cornea	3
" " globe	13
" " iris	1
Glaucoma, acute	3
" chronic	17
Glioma	2
Gumma of iris	1
Herpes	3
Hyalitis	2
Hydrophthalmus	2
Injury to globe	31
Irido-cyclitis	3
Iritis, acute	12
" "	3
" specific	9
Keratitis	29
" phlyctenular	5
" interstitial	5
" vascular	6
Kerato iritis	3
Lachrymal abscess	2
" obstruction	2

Leucoma	17
" adhærens	2
Melano sarcoma	1
Neuritis, optic	2
Neuro retinitis	2
Occluded pupil	8
Oedema lids	2
Ophthalmia neonatorum	7
Panophthalmitis,	8
Phthisis bulbi	22
Pterygium	4
Ptosis	3
Prolapse iris	2
Retinitis	1
" hemorrhagica	1
" pigmentosa	1
Retro bulbar neuritis	1
Sarcoma cornea	3
" iris	5
Scleritis	4
Separation retina	8
Staphyloma, anterior	17
Strabismus, convergens	13
" divergens	5
Sympathetic irritation	5
Synechia anterior	1
Trichiasis	2
Tumor, brow	1
" globe	2
" lid	2
" orbit	3
Ulcer cornea	54
" " with hypopyon	17
" " " prolapse iris	4

Ulcer cornea traumatic	3
" " serpens	10
Wound, cornea	25
" lid	2
" ciliary region	11
Miscellaneous	9
No disease	7
	774

REPORT OF ONE HUNDRED AND FIFTEEN

Cataract Operations

PERFORMED AT THE INFIRMARY BY THE OPHTHALMIC STAFF DURING THE YEAR ENDING AUG. 30, 1893.

COMPILED BY B. JOY JEFFRIES, M. D.

Of the one hundred and fifteen cases, ninety-five were extractions of senile cataract, and operated on by one of the following methods: —

Method of Von Graefe, modified	58
Method of Simple Extraction	18
Method of Simple Extraction, modified by a button hole of the iris	19
	95

The resulting visions in these ninety-five extractions are: —

Vision = 0.9	1	Vision = 1-20	1
" = 0.8	1	" = 1-40	1
" = 0.7	4	" = 1-50	1
" = 0.6	1	" = fingers at five metres,	1
" = 0.5	4	" = shadows	2
" = 0.4	13	" = perception of light	1
" = 0.3	26	" = not recorded	1
" = 0.2	25		95
" = 0.1	12		

These visions are all the extractions of cataracts not traumatic; they include, therefore, any doubtful or complicated cases. Many were naturally taken just before the patient's discharge from the hospital. Of course, time may improve some, whilst others would be much brought up by a secondary operation. All the operations were done under cocaine and with antiseptic precautions.

Three operations were done for congenital cataracts and seventeen for traumatic cataracts, by the methods and with the results detailed in the report of each case appended.

STATISTICS OF CATARACT EXTRACTIONS, WITH IRIDECTOMY, FOR THE YEAR ENDING AUG. 31, 1893.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	Female. 27 Irish. Good.	2 years.	Sept. 8, 1892. Graefe. Cocaine. Slight bridge of iris left at pupillary border above. Struck eye on eighth day when slight hyphaema. Wound not opened. Slight, ciliary injection. Atropine after third day. No iritis. 16 days.	Oct. 6. V. = 0.3, c. + 12.00, c. + 2.00, cyl. ax. 0°.
2	Male. 68 Irish. Good.	2 years. Good.	Sept. 4, 1892. Graefe. Cocaine. Normal. 8 days. Atropine after third day.	Sept. 12. V. = 0.3, c. + 12.00.
3	Female. 72 Irish. Good.	2½ years. Senile. Good.	Sept. 9, 1892. Graefe. Cocaine. Normal. 6 days.	Sept. 16. V. = 0.2, c. + 10.00.
4	Male. 69 Amer. Good.	1½ years. Senile. Immature. Good.	Sept. 9, 1892. Graefe. Cocaine. Normal. Much soft cortical. Tenth day much cortical in pupil, widely dilated. Healing normal. 21 days.	Oct. 3 Fingers at 5 metres. c. + 11.00.
5	Female. 74 Irish. Good. Nervous	Mature. Perfect.	Oct. 1, 1892. Graefe. Cocaine. Normal. Atropine after removal of bandage eighth day. 15 days. Choroiditis disseminata was found and large staphyloma post.	Oct. 15. V. = 0.2, c. + 6.00.
6	Male. 65 Amer. Good.	10 years. Post. polar. Fair.	Sept. 28, 1892. Graefe. Normal. Central opaque capsule removed by forceps. Bandage off eighth day. Eye injected till fourteenth day, when it became more quiet. Discharged sixteenth day with slight corneal injection. No pain.	Oct. 22. V. = 0.2, c. + 3.00.
7	Male. 70 Amer. Good.	1 year Mature. Senile. Good.	Oct. 15, 1892. Graefe. Cocaine. Normal. 12 days.	Oct. 12. V. = .2, c. + 11.00, c. + 2.50 cyl.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
8	Female. 70 Irish. Good.	2 years. Mature. Senile. Good.	Sept. 21, 1892. Graefe. Cocaine. Normal. Atropine after eighth day. 22 days.	Oct. 22. V. = 0.3, c. + 11.00, c. + 2 00 cyl. ax. 0°.
9	Female. 48 Amer. Good.	2 years. Mature. Good.	Oct. 18, 1892. Graefe. Normal. Oct. 31, Y-shaped opacity of capsule.	Oct. 31, 1892. V. = 0.2, c. + 11.00.
10	Male. 59 Irish.	1 year. Mature. Senile. Good.	Oct. 28, 1892. Graefe. Cocaine. Normal. Considerable cortical. Healing normal. Pupil well dilated. Iris clear. Slight amount of cortical at inner half of pupil. No irritation. 27 days.	V. = 0.2, c. + 1.00, + 4.00 near.
11	Male. 79 Irish. Good.	2 years. Senile. Mature.	Nov. 1, 1892. Graefe. Cocaine Normal. Iritis followed, and in four weeks tension diminished. Good sized pupil, with small amount of cortical. 48th day. Pupil good size. Line of capsule extending across lower nasal quadrant. Iris natural color. 49 days.	March 17, 1893. V. = 0.2, c. + 9.00.
12	Male. 38 Amer. Good.	Mature. Good.	Nov. 1, 1892. Graefe. Cocaine. Patient rolled eye up before cut was completed, so that iris was cut, making iridectomy necessary. Healing normal. 35 days.	V. = 0.50, c. + 7.00, c. + 2 00, cyl.
13	Male. 65 Amer. Good.	Senile. Mature. Good.	Oct. 5, 1892. Graefe. Cocaine. Normal. 22 days. Much capsule. Fingers counted. Secondary operation, cocaine, Dec. 7, 1892.	Dec. 9. V. = 0.4, c. + 11.00.
4	Male. 67 Amer. Good.	3 years. Senile. Mature. Good.	Dec. 8, 1892. Graefe. Cocaine. Ant. chamber very shallow. Iris cut in making section. Counted fingers readily after operation. Second day, pus on bandage. Eye opened; nothing found. Next day, wound infiltrated. Bandage removed. Hot fomentations and Panas solution. Aristol Ung. Ninth day, pupil closed. Blood in ant. chamber. Pus in cornea above. Purulent dacryocystitis. Fourteenth day, less discharge from mucocele. Patient insists on going home against advice. 16 days.	V. = 0.1, c. + 11.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
15	Male. 59 Amer. Good.	2 years. Senile. Mature. Good.	Dec. 8, 1892. Graefe. Cocaine. Fair-sized nucleus and some cortical. Ninth day, no adhesions; tag of iris in nasal part of wound. Sixteenth day, still some injection. Capsule in lower part of pupil. 16 days.	Dec. 24. V. = 0.3. c. + 10.00.
16	Female. 55 Amer. Good.	3 years. Senile. Mature. Good.	Dec. 5, 1892. Graefe. Cocaine. Normal. Fingers counted. Atropine used during healing. Nineteenth day, some iritis. Twenty-third day, opaque capsule seen in lower part of pupil. Fortieth day, eye quiet. Discharged. 40 days.	Jan. 14, 1893. V. = 0.2, with + 11.00.
17	Male. 53 Amer. Good.	2 years. Senile. Mature. Fair.	Dec. 15, 1892. Graefe. Cocaine. Normal. Eighth day, opaque capsule seen in lower portion of pupil. 13 days.	Dec. 28, V. = 0.2, with + 11.00.
18	Male. 70 Irish. Good.	2 years. Senile. Mature.	Nov. 11, 1892. Graefe. Cocaine. Normal. 18 days.	Nov. 29. V. = 0.1, with + 12.00.
19	Male. 71 Amer. Feeble.	3 years. Senile. Mature. Fair.	Nov. 11, 1892. Graefe. Cocaine. Considerable collapse of cornea after operation. Normal till seventh day, when some iritis. Patient weak, and therefore discharged Dec. 6.	Dec. 6. V. = 0.1.
20	Male. 65 Amer. Fair.	1½ years. Senile Mature. Good.	Graefe. Cocaine. Normal healing. Tenth day showed signs of wandering, and put into separate ward.	Dec. 14. V. = 0.1, c. + 12.00.
21	Female. 78 Nova Scotia. Good.	2½ years. Senile. Mature. Good.	Jan. 12, 1893. Graefe. Cocaine. Normal. Jan. 20, some cortical in pupillary area. Atropine. Jan. 30, secondary operation. 27 days.	June 15, 1893. V. = 0.8. c. + 10.00.
22	Female. 75 Spain. Good.	2 years. Senile. Mature. Good.	Jan. 10, 1893. Graefe. Cocaine. Lens extracted with some difficulty by aid of hook after enlarging wound with scissors. Large conjunctival flap. Bandage removed fourth day, as patient constantly removed it and picked at eye. Tenth day patient little irrational, gets up at night and goes about ward. Twenty-first day, conjunc. red. Atropine, etc. Feb. 4, eye quiet, discharged. Adhesion to capsule. Much capsule, but clear space in middle. 25 days.	V. = 0.3, c. + 11.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
23	Female. 69 Amer. Good.	2 years. Senile. Mature. Good.	Jan. 30, 1893. Graefe. Cocaine. Normal. 28 days.	V. = 0.3, c. + 9.00.
24	Male. 63 Nova Scotia. Good.	2 years. Senile. Mature.	Feb. 2, 1893. Graefe. Cocaine. Feb. 20, some capsule left. Secondary operation, Feb. 27. Discharged. 25 days.	Aug. 30, 1893. V. = 0.7, c. + 12.00.
25	Female. 59 Irish. Good.	3 years. Senile. Mature. Good.	Feb. 6, 1893. Graefe. Cocaine. Feb. 13, some redness about lids. Atropine stopped and again used. Feb. 25, eye quiet; some capsule in pupil. 25 days.	V. = 0.4, c. + 11.00.
26	Female. 53 Newfound'd. Good.	16 months. Senile Mature. Good.	Feb. 13, 1893. Graefe. Cocaine. Mar. 3, some capsule present. 18 days.	May 22, 1893. V. = 0.5, c. + 9.00.
27	Male. 63 Irish. Good.	3 years. Senile. Mature. Good.	Feb. 14, 1893. Graefe. Cocaine. Considerable cortical. Feb. 20, patient frequently disturbed bandage. Mar. 9, considerable membrane in pupil, but a clear linear space toward outer side. 33 days.	Mar. 21, 1893. V. = 0.5, c. + 10.00.
28	Male. 62 Amer. Good.	2 years. Senile. Mature. Good.	Feb. 20, 1893. Graefe. Cocaine. Patient very restless during healing. Mar. 9, eye quiet. 18 days. Secondary operation, April 26, by needle.	Apr. 27, 1893. V. = 0.3, c. + 11.00.
29	Male. 69 Amer. Good.	1½ years. Senile. Mature. Good.	Feb. 21, 1893. Graefe. Cocaine. Large lens, little cortical, ant. chamber did not fill up well. Mar. 12, an iritic adhesion below. Pupil well open. Delicate capsule covering pupil, clear line to nasal side and above. 20 days.	V. = 0.3, c. + 11.00.
30	Male. 74 Amer. Good.	1½ years. Senile. Mature. Good.	Mar. 3, 1893. Graefe. Cocaine. Patient very unruly. Speculum removed and operation finished with elevator. Iris protruded with lens extraction, not replaced as patient would not keep eye quiet; some blood in ant. chamber. Mar. 18, eye quiet. 15 days.	Mar. 18, 1893. V. = 0 3, c. + 12.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
31	Female. 62 Irish. Good.	4 years. Senile. Mature. Good.	March 17, 1893. Graefe. Cocaine. March 26, considerable injection. Iris tag in wound. Some iritis. March 31, pupil well dilated. April 15, eye quieting down. May 2, still some adhesions. 46 days.	V. = 0.2, c. + 11.00, c. + 1.00. ax. 0°.
32	Male. 60 Amer. Good.	5 years. Senile. Mature.	March 21, 1893. Graefe. Cocaine. Normal. 21 days.	V. = 0.3, c. + 11.00.
33	Male. 92 Amer. Fair. Rheumatism.	2 years. Senile. Mature.	March 24, 1893. Graefe. Cocaine. Normal. Patient restless to go home. 25 days.	Aug. 3, 1893. V. = 0.2, c. + 11.00.
34	Female. 55 Irish. Good.	2½ years. Senile. Mature. Good.	March 24, 1893. Graefe. Cocaine. April 4, atropine stopped on swelling and redness of lids. April 15, gone; eye quiet; some cortical in pupil. 35 days.	V. = 0.3, c. + 3.00.
35	Female. 54 Amer. Good.	1 year. Senile. Mature. Good.	March 24, 1893. Graefe. Cocaine. Normal. 28 days.	June 30, 1893. V. = 0.4, c. + 10.00, c. + 2.00. ax. 0°.
36	Male. 70 Irish. Good.	6 years. Senile. Mature. Good.	April 6, 1893. Graefe. Cocaine. April 14, conjunc. injection. April 25, vision very poor. May 9, good round pupil; clear; no increase of vision. Examination shows optic atrophy. 33 days.	V. = $\frac{1}{40}$, c. + 11.00.
37	Female. 64 Irish.	2 years. Senile. Mature.	April 7, 1893. Graefe. Cocaine. Vitreous on cutting capsule; more with removal of lens. Eye healed up gradually, without much pain or injection, and no iritis. May 21, eye quiet and whitening out. 47 days.	V. = shadows.
38	Male. 62 Irish. Good.	18 months. Senile. Mature. Good.	April 14, 1893. Graefe. Cocaine. Normal. April 28, good pupil; conjunc. whitening out. May 9, some membrane seen in pupil. 25 days.	V. = 0.3, c. + 10.00.
39	Female. 49 Irish. Good.	7 years. Senile. Mature. Good.	April 28, 1893. Graefe. Cocaine. Normal. 14 days.	June 27, 1893. V. = 0.4, c. + 11.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
40	Female. 72 Irish. Good.	3 years. Senile. Mature.	May 10, 1893. Graefe. Cocaine. Capsule thick. Zonula ruptured. Slight vitreous. Lens removed by spatula. Some irritation in healing; but May 26, eye whitening out. June 2, quiet. 23 days.	June 28, 1893. V. = 0.3, c. + 12.00.
41	Male. 69 Irish. Good.	18 months. Senile. Mature. Good.	May 12, 1893. Graefe. Cocaine. Iris cut on incision. May 21, some conjunc. irritation. May 26, quieting down. May 27, discharged. 15 days.	May 27. V. = 0.1, c. + 9.00.
42	Male. 59 Canada. Good.	1 year. Senile. Mature. Good.	May 16, 1893. Graefe. Cocaine. Considerable cortical. Normal. 11 days.	May 27, 1893. V. = 0.3, c. + 10.00.
43	Male. 70 Irish.	3 years. Senile. Mature. Good.	June 7, 1893. Graefe. Cocaine. Large nucleus; small amount cortical. June 22, little iritis. Atropine. July 1, eye quiet. 23 days.	V. = 0.2, c. + 11.00.
44	Female. 54 Irish. Good.	4 years. Senile. Mature. Good.	June 30, 1893. Graefe. Cocaine. Patient behaved very badly. Considerable cortical left. Patient restless under healing, etc. July 18, pupil large; no injection. 18 days.	V. = 0.3, c. + 10.00.
45	Female. ? Irish. Good.	5 years. Senile. Mature. Good.	June 30, 1893. Graefe. Cocaine. Patient vomited after operation. Very restless. July 3, eye looks well. July 16, thin membrane in pupil. 16 days.	V. = 0.4, c. + 12.00.
46	Male. 68 Amer. Good.	2 years. Senile. Mature. Good.	July 8, 1893. Graefe. Cocaine. Normal. 21 days.	Aug. 30, 1893. V. = 0.4, c. + 9.00.
47	Female. 61 Irish. Good.	2 years. Senile. Mature. Good. Cornea hazy from old grns. and pannus.	July 8, 1893. Graefe. Cocaine. Capsule tough; lens attached to it, and vitreous on removal with difficulty. July 12, no pain or swelling. July 13, pain; swelling of conjunc.; cornea hazy, infiltrated; atropine; hot fomentations. Panas. All gradually quieted down by Aug. 31. 54 days.	V.=perception light.
48	Female. 60 Amer. Good.	6 months (?). Senile. Mature. Good.	July 10, 1893. Graefe. Cocaine. Patient's movement caused iris to fall over knife. Small nucleus. Large amount cortical. July 19, pain; iritis; leeches; atropine. Aug. 2, considerable cortical present. 23 days.	V. = 0.3, c. + 10.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
49	Male. 65 Irish. Good.	1 year. Senile. Mature. Good.	July 19, 1893. Graefe. Cocaine. Normal. 14 days.	V. = 0.1, c. + 11.00.
50	Male. 58 Amer. Good.	1½ years. Senile. Mature. Good.	July 19, 1893. Graefe. Cocaine. Very little cortical. Thick lens. Wound healed little slowly. Aug. 2, eye quiet; little cortical present. 14 days.	V. = 0.2, c. + 10.00.
51	Female. 45 Amer. Good.	2 years. Senile. Mature. Good.	July 20, 1893. Graefe. Cocaine. Normal healing, but thick opaque membrane to be broken. 14 days.	V. = $\frac{1}{20}$, c. + 11.00.
52	Male. 50 N. Brun. Good.	1½ years. Senile. Mature. Good.	July 23, 1893. Graefe. Cocaine. Normal. 15 days.	Aug. 16, 1893. V. = 0.5, c. + 10.00.
53	Male. 71 Amer. Good.	12 years. Senile. Mature. Good.	Aug. 3. 1893. Graefe. Cocaine. Normal. 12 days.	Oct. 11, 1893. V. = 0.3, c. + 11.00.
54	Male. 79 Amer. Good.	8 years. Senile. Mature. Good.	Aug. 4, 1893. Graefe. Cocaine. Aug. 14, in night, patient hit eye with hand; swelling of lid. Some injection. Aug. 19, eye quiet; considerable membrane in pupil. 15 days.	Sept. 5, 1893. V. = 0.2, c. + 11.00.
55	Male. 68 Irish. Good.	2 years. Senile. Mature.	Aug. 9, 1893. Graefe. Cocaine. Patient moved as knife entered eye. Aqueous escaped, making shallow ant. chamber. Operation finished with difficulty; lens very sticky. During healing, patient mentally disturbed, getting out of bed and removing bandage. Aug. 15, some iritis; some adhesions. Aug. 30, eye quiet; pupil well dilated. 16 days.	V. = 0.1, c. + 11.00, c. + 2.00, ax. 09.
56	Male. 70 Irish. Good.	4 years. Senile. Mature. Good. Upper portion of cornea hazy from lid trouble.	Aug. 14, 1893. Graefe. Cocaine. Aug. 19, slight iritis; atropine, etc. Sept. 8, pupil dilated well; eye quiet; some membrane in pupil. 28 days.	V. = 0.1, c. + 11.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
57	Male. 77 Irish. Good.	Senile. Mature.	Aug. 21, 1893. Graefe. Cocaine. Aug. 30, iritis. Sept. 14, iritis subsided; pupil dilated, but irregular. Patient behaved badly; filthy in habits, etc. 26 days.	V. = 0.1, c. + 9.00.
58	Female. 51 Amer.	Not recorded.	Nov. 30, 1892. Graefe. Cocaine. Normal. 21 days.	V. = 0.2, c. + 11.00.

SIMPLE EXTRACTIONS.

1	Male. 72 Amer. Good.	1½ years. Senile Mature. Good.	Oct. 21, 1892. Simple extraction. Cocaine. Normal. 17 days.	V. = 7, c. + 9.00, c. + 15.00, cyl. ax. 15°.
2	Female. 56 Amer. Good.	1½ years. Senile. Mature. Good.	Nov. 5, 1892. Simple extraction. Cocaine. Ant. chamber re-established. Third day. Pupil then oval. Ant. syn. to wound Atropine. 14 days.	Nov. 19. V. = 0.1, c. + 5.00, c. + 6.00, cyl.
3	Male. 70 Irish. Good.	Senile. Mature. Very little cortical. Good.	Nov. 26, 1892. Simple extraction. Cocaine. Normal. 15 days.	Jan. 11, 1893. V. = 0.3, c. + 10.00.
4	Male. 68 Amer. Good.	3 years. Senile. Mature. Good.	Dec. 14, 1892. Simple extraction. Cocaine. A small piece of opaque capsule could not be removed from the pupil without too much manipulation, and was left. Next day, wound not healed. Fourth day, ant. chamber not re-established. Ninth day, ant. chamber exceedingly shallow; iris, cornea, and conjunctiva in good condition. Thirteenth day, ant. chamber beginning to reform. Sixteenth day, tag of capsule in pupil. 36 days. Secondary operation by knife needle.	Jan. 19, 1893. V. + 0.1, c. + 11.00. Jan. 27, 1893. After secondary, V. = 0.2, c. + 8.00, c. + 3.00, cyl. ax. 180°.
5	Male. 63 Irish. Good.	2 years. Senile. Mature. Good.	Jan. 4, 1892. Simple extraction. Cocaine. Fourth day, ant. chamber very shallow. Same eighth day. Thirteenth day, pupil dilated but little on account of adhesions. Atropine. Sixteenth, some pain; hands and wrists swollen. Sod. Salicyl., etc. Feb. 1, eye quiet. Seventh, discharged. 34 days. Secondary operation with knife needle did not improve vision.	Feb. 7. V. = 0.3, c. + 12.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
6	Female. 70 Amer. Good.	5 years. Senile. Mature. Good.	Feb. 9, 1893. Simple extraction. Cocaine. An iridectomy had been done four years before. Feb. 15, patient struck eye in night; blood in ant. chamber. Feb. 20, 21, some swelling of lids and entropion of lower lid, with irritation of the eye. Feb. 26, pus in ant. chamber. Mar. 4, pus absorbing; lower lid kept out by plaster. Mar. 16, pus absorbed. April 6, eye quiet; pupil filled with cortical. July 26, Secondary operation; opaque membrane removed by hook.	Aug. 10, 1893. V. = 0.7, c. + 10.00.
7	Female. 60 Irish. Good.	8 years (?). Senile. Mature.	Mar. 10, 1893. Simple extraction. Cocaine. Some vitreous after lens. Mar. 24, secondary operation. Mar. 31, eye quiet. 21 days.	April 27, 1893. V. = 0.4, with + 9.00, c. + 1.00. ax. 0°
8	Female. 52 Newf'd-land. Good.	6 months (?). Senile. Mature. Good.	March 31, 1893. Simple extraction. Cocaine. Small nucleus. Large amount of cortical. Normal. April 17, ophthalmoscope shows large patches of choroidal atrophy about the disc and in macula region. Smaller patches scattered over fundus. 18 days.	April 28, 1893. V. = 0.2. s. glasses.
9	Female. 70 Amer. Good.	4 years. Senile. Mature. Good.	April 7, 1893. Simple extraction. Cocaine. May 2, eye white and quiet. 25 days.	V. = 0.1, c. + 9.00.
10	Female. 62 Amer. Good.	15 months. Senile. Mature. Good.	April 10, 1893. Simple extraction. Cocaine. Shallow ant. chamber. Considerable cortical, some adherent to ant. capsule. Did well till sixth day, then conjunctival chemosis. Hazy cornea, with deep infiltration. Wound closed, and ant. chamber good depth. April 20, more infiltration; unable to make out iris or pupil; eye slowly cleared. May 4, blood in ant. chamber. May 4, ant. chamber very shallow; pupil contracted; conjunc. injected. 31 days.	V. = shadows.
11	Male. 67 German. Good.	8 months (?). Senile. Mature. Good.	April 21, 1893. Simple extraction. Cocaine. Normal. 17 days.	May 22, 1893. V. = 0.4. c. + 11.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
12	Female. 66 N'w F'dland. Good.	3 years. Senile. Mature. Good.	May 11, 1893. Simple extraction. Cocaine. Eserine. May 25, eye quiet; some capsule left. Secondary operation declined. 18 days.	May 24, 1893 V. = 0.1, c. + 12.00.
13	Female. 50 Irish. Good.	1 year. Senile. Mature. Good.	May 11, 1893 Simple extraction. Cocaine. Eserine. Normal healing. May 24, some cortical up and in. 15 days.	May 24, 1893. V. = 0.2, c. + 10.00.
14	Female. 55 Amer. Good.	2 years. Senile. Mature. Good.	May 29, 1893. Simple extraction. Cocaine. 14 days. June 5, Secondary operation.	V. = 0.3. c. + 11.00, c. + 3.00. ax. 0°.
15	Female. 64 Irish. Good.	3 years. Senile. Mature. Good.	June 7, 1893. Simple extraction. Cocaine. Slight escape of vitreous. June 12, eye quiet but pupil drawn up. June 26, ophthalmoscope shows post. sclerotico-choroiditis. 19 days.	V. = $\frac{1}{50}$.
16	Male. 76 Amer. Good.	3 years. Senile. Mature. Good.	June 15, 1893. Simple extraction. Cocaine. Healing normal. June 29, still some cortical present. 14 days.	Sept. 11, 1893. V. = 0.6, c. + 11.00. c. + 1.00. ax. 0°.
17	Female. 65 Irish. Good.	6 years. Senile. Mature. Good.	June 21, 1893. Simple extraction. Cocaine. June 26, Iritis; no pain. July 1, pupil dilating. July 8, pupil only little irregular; does not dilate very much. 18 days.	July 31, 1893. V. = 0.2, c. + 12.00.
18	Female. 65 Irish. Good.	2 years. Senile. Mature. Good.	Aug. 3, 1893. Simple extraction. Cocaine. Patient had rheumatism during healing. Flighty, mentally. Aug. 12, some iritis. Aug. 19, quiet; some membrane in pupil.	V. = 0.2, c. + 12.00.

MODIFIED SIMPLE EXTRACTIONS.

1	Male. 75 Irish.	11 months. Good.	Sept. 9, 1892. Modified simple extraction. Normal till seventh day, when under atropine slight post. syn. Pupil oval. 24 days.	Oct. 3. V. = 0.2, c. + 8.00, c. + 4.00 cyl. ax. 0°.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
2	Male. ? Amer. Good.	1 year. Senile. Mature. Good.	Sept. 10, 1892. Modified simple extraction. Cocaine. Normal. Atropine after first day. 18 days.	Sept. 28. V. = 0.3. c. + 8.00, c. + 2.00. cyl. ax. 10°.
3	Male. 45 Amer. Good.	2 years. Senile. Mature. Good.	Sept. 9, 1892. Modified simple extraction. Cocaine. Normal. Sixteenth day. Much cortical in pupil, which dilated with adhesions and round. 23 days.	Oct. 2. V. = 0.3, c. + 11.00, c. + 3.00. cyl. ax. 5°.
4	Male. 52 German. Good.	3 years. Senile. Mature.	Sept. 12, 1892. Modified. Simple extraction. Cocaine. Normal till 16th day, when struck his eye and opened the wound. 16th day wound well healed. Eye quiet. 16 days.	Oct. 10. V. = 0 4, c.+10.00, c. cyl.?
5	Female. 82 Amer. Good.	1½ years. Mature. Senile. Good.	Sept. 29, 1892. Modified simple extraction. Cocaine. Normal. 22 days.	Oct. 22. V. = 0.3. c. + 10.00.
6	Male. 74 Amer. Good.	1 year. Mature. Senile. Good.	Oct. 1, 1892. Modified simple extraction. Cocaine. Normal. 18 days.	Oct. 18. V. = 0.4, c. + 12.00.
7	Female. 62 Irish. Good.	1 year. Mature. Senile. Good.	Oct. 12, 1892. Modified simple extraction. Cocaine. Normal. Atropine after third day.	Nov. 11, 1893. V. = 0.4, c. + 11.00.
8	Male. 73 Irish. Good.	1 year. Senile. Mature. Good	Oct. 13, 1892. Modified simple extraction. Cocaine. Some vitreous. Wound slow in healing. Considerable conjunc. and ciliary redness. 12th day. Counts fingers Oct. 28.	May 5, 1893. V. = 0.2, c. + 11.00.
9	Male. 73 English. Good.	1 year. Mature. Senile. Good.	Oct. 19, 1892. Modified simple extraction. Cocaine. Normal.	March 16, 1893. V. = 0.3, c. + 12.00.
10	Male. 63 Irish. Good.	Good. Senile. Mature. Good.	Dec. 3, 1892. Simple extraction with button-hole of iris. Cocaine. Lens removed with slight difficulty. Second day, eye opened; wound healed. Pupil round and central. Sixth day, conjunctiva fairly white. Edges of wound bulge slightly. Pupil drawn little upwards. Tenth day, patient insisted on leaving. Wound closed but not firmly adherent, yet ant. chamber deep and well established.	V. = 0.3. with + 8.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
11	Female. 46 Irish. Good.	2 years. Senile. Mature.	Jan. 13, 1893. Simple extraction with button-hole. Cocaine. Eserine. Jan. 17, good ant. chamber. Jan. 24, pupil somewhat dilated. Some opacity of capsule. Jan. 31, wound healed. Secondary operation. Feb. 6, eye quiet, discharged. 24 days.	May 27, 1893. V. = 0.3, c. + 11.00.
12	Male. 80 Irish. Good.	Over six months. Senile. Mature. Good.	Jan. 30, 1893. Simple extraction with button-hole. Cocaine. Eserine. Feb. 6, pupil small and round, much cortical. Atropine. Feb. 10, some cortical present. Feb. 14, secondary operation with knife-needle. Atropine, etc. Feb. 21, eye quiet. 21 days.	V. = 0.2, c. + 10.00.
13	Male. 60 Irish. Good.	3 years. Senile. Mature. Good.	Jan. 30, 1893. Simple extraction with button-hole. Lens extracted by means of rotatory movement. Eserine. Feb. 3, pupil round, some cortical. Feb. 14, wound healed. Eye quiet. Discharged. 15 days. Subsequent discission with knife-needle. Cocaine.	Feb. 28, 1893. V. = 0.9, c. + 11.00.
14	Male. 36 Nova Scotia. Good.	8 years. Dark color with white central capsule; opacity anteriorly. Good.	Feb. 1, 1893. Simple extraction, with button-hole of iris. Feb. 3, wound closed; pupil round. Feb. 10, some cortical. Feb. 21, still some cortical in pupillary area. Discharged. 20 days.	V. = 0.4, c. + 7.00.
15	Female. 70 Irish. Good.	3 years. Senile. Mature. Good.	Feb. 7, 1893. Simple extraction, with button-hole. Cocaine. Patient very unruly during operation. Eserine. Feb. 28, tough opaque membrane in pupillary area. Secondary operation, with knife-needle 43 days.	V. = 0.1, with + 11.00.
16	Male. 77 Amer. Good.	3½ years. Senile. Mature. Good.	Feb. 8, 1893. Simple extraction with button-hole. Cocaine. Eserine. Feb. 14, pupil small, irregular; some cortical. Feb. 22, secondary. Feb. 24, eye quiet; good round opening in pupillary membrane.	V. = 0.2, c. + 11.00.
17	Female. 70 Scotch. Good.	18 months. Senile. Mature. Good.	May 12, 1893. Simple extraction, with button-hole of iris. May 22, some membrane in pupil area. May 27, eye quiet. 15 days.	V. = 0.2. c. + 11.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
18	Female. 70 Amer. Good.	2½ years. Senile. Mature. Good.	May 12, 1893. Simple extraction with button-hole of iris. Cocaine. Atropine. Atropine used in healing stopped for dermatitis. Conjunc. irritation. May 26, better; pupil still small; patient anxious to go home. 18 days.	V. = 0.7, c. + 13.00.
19	Male. 40 Russia. Good.	1 year. Senile. Mature. Good.	May 17, 1893. Simple extraction with button-hole of iris. Small nucleus. Large amount of cortical. Possible escape of little vitreous. May 24, large amount of cortical in pupil. May 27, slowly absorbing. 10 days.	June 24, 1893. V. = 0.4, c. + 12.00.

CONGENITAL CATARACTS.

1	Male. 34 Prince Edw'd Island. Good.	Not recorded.	Nov. 15, 1892. Discission. Cocaine. Dec. 4, 1892, suction. Discharged Dec. 12.	V. = $\frac{1}{50}$, c. + 12.00.
2	Female. 31 Amer. Good.	Not recorded.	Numerous discissions, then April 26, 1893, Graefe, cocaine. Discharged May 10, 1893.	V. = 0.3, c. + 10.00.
3	Female. 17 Amer. Good.	Not recorded.	Oct. 13, 1892. Suction. Oct. 17, Discission. Discharged Oct. 31.	Oct. 14, 1893. V. = 1.00, with glass.

TRAUMATIC CASES.

1	Male. 7 Amer. Good.	Good. Traumatic.	Dec. 5, 1892. Suction. Cocaine. 5 days.	Vision not obtained.
2	Male. 25 Amer. Good.	Traumatic.	Oct. 13, 1892. Suction. Cocaine.	No record.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
3	Male. 25 Amer. Good.	Traumatic.	Nov. 22, 1892. Suction. Cocaine. Discharged Nov. 28.	V. = 0.3, c. + 12.00.
4	Male. 7 Amer. Good.	Traumatic.	Dec 5, 1892. Suction. Cocaine. Vision not recorded, as patient was removed before it could be done.	No record.
5	Male. 23 Canada. Good.	Traumatic.	Jan. 9, 1893. Graefe. Cocaine. Patient behaved badly during operation; some vitreous, but only portion of lens removed. Discharged Jan. 28, 1893.	V. = 0.1, c. + 10.00.
6	Male. 20 Amer. Good.	Traumatic.	Jan. 24, 1893. Discission. Cocaine. Discharged April 21, 1893.	V. = 0.2, c. + 12.00.
7	Male. 18 Amer.	Traumatic.	Jan. 30, 1893. Suction. Cocaine. Discharged Feb. 8, 1893.	V. = 0.2, c. + 4.50.
8	Male. 30 Irish.	Traumatic.	Feb. 21, 1893. Linear extraction attempted. Small amount of opaque lens substance removed. Discharged Mar. 27, 1893.	No vision taken.
9	Male. 23 Amer. Good.	Traumatic.	Mar. 3, 1893. Discission. Lens found to be hard. Mar. 13, 1893. Simple extraction with button-hole of iris. Mar. 31, discharged.	V. = 0.2, c. + 12.00.
10	Male. 28 Amer. Good.	Traumatic.	Mar. 31, 1893. Suction attempted, lens found to be too hard, was left to absorb. May 8, discharged.	V. = 1.00, c. + 11.00.
11	Male. 27 Amer.	Traumatic.	June 14, 1893. Graefe. Cocaine. Lens cretaceous. June 28, discharged. Numerous opacities in vitreous.	V. = shadows.
12	Male. 28 Irish. Good.	Traumatic.	June 14, 1893. Graefe. Cocaine. June 28, discharged. Separation of retina in each eye found.	V. = $\frac{1}{20}$, c. + 11.00.
13	Female. 25 German. Good.	Traumatic.	Aug. 4, 1893. Suction. Cocaine. Lens very hard. Aug. 16, discharged. Considerable cortical present.	V. = 0.1, c. + 11.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
14	Male. 21 Italian. Good.	Traumatic.	Aug. 8, 1893. Suction. Lens hard and sticky. Aug. 21, discharged.	V. = $\frac{1}{20}$, c. + 11.00.
15	Male. 51 German. Good.	Traumatic.	Aug. 23, 1893. Lens dislocated into ant. chamber. Simple extraction. Considerable soft cortical. Some escape of vitreous. Discharged Sept. 26.	V. = $\frac{1}{100}$.
16	Male. 35 Amer. Good.	Traumatic. Soft cataract.	Sept. 9, 1892. Discission. Sept. 10. Simple extraction. Discharged Oct. 10.	Not recorded.
17	Male. 23 Amer. Good.	11 years. Traumatic.	Feb. 16, 1893. Graefe. Cocaine. Ant. chamber very shallow. Iris falling before the knife. Capsule tough. Lens substance very soft. March 3, eye quiet. Capsule still present. 15 days.	V. = 0.1, c. + 11.00.

AURAL DEPARTMENT.

To the Board of Managers of the Massachusetts Charitable Eye and Ear Infirmary.

Gentlemen, — The Board of Aural Surgeons present herewith the statistical report of their department for the past year, which shows especially that the improved facilities of the new house have enabled them to care for a large number of the most serious and dangerous ear-diseases. The number of these cases is likely to greatly increase, as the knowledge of the ability of the new hospital to care for them becomes better known.

During the year, the entire nursing of the department has been placed under the direction of a trained nurse, with a very decided gain in the efficiency of the service and a corresponding relief to the surgical staff.

The thanks of the Board are due the Assistant Surgeons, Clinical Assistants, and Interne for their most efficient services.

Respectfully submitted,

CLARENCE J. BLAKE.
J. ORNE GREEN.
EDMUND D. SPEAR.

DISEASES OF OUT PATIENTS, EAR DEPARTMENT.

Oct. 1, 1892, to Oct. 1, 1893.

I. Morbi Auris Externæ.

1. Auriculæ.

a. *Inflammationes.*

	A.D.	A.U.	A.S.
Eczema acutum vel chronicum	9	17	11
Herpes zoster	0	0	2
Intertrigo	1	0	2
Abscessus auriculæ	1	0	2
" conchæ	0	0	1
" lobuli	2	1	3
" tragi	3	0	1
Hæmatoma traumaticum	3	0	1
" idiopathicum	1	0	1
Perichondritis	1	0	0
Trauma directum	2	0	0

b. *Deformitates.*

Microtia	3	0	0
Polyotia	0	0	2

c. *Neoplasmata.*

Angioma tragi	0	0	1
Cornu	0	0	1
Cystis lobuli	3	0	0
Fibroma "	1	1	0

2. Meatus-Cutis.

a. *Anomaliæ secretionum.*

Accumulatio ceruminis	270	356	269

b. *Inflammationes.*

Eczema acutum vel chronicum	15	43	12
Otitis externa diffusa acuta	29	31	33
" " " chronica	6	7	9

	A.D.	A.U.	A.S.
Otitis externa follicularis	41	4	47
" " parasitica	1	0	0
Abscessus meatus	6	0	6
Corpus adventitium animale	7	0	9
" " inanimale	17	0	11
c. *Neoplasmata.*			
Papilloma	1	0	0
d. *Deformitates.*			
Atresia acquisita	1	0	2
Fistula auris congenita	0	1	0
MEATUS-OSSIS.			
Caries	1	0	1
Exostosis circumscripta	2	0	2
II. MORBI AURIS MEDIÆ.			
1. MEMBRANÆ TYMPANI.			
Myringitis acuta	0	0	2
Trauma directum	3	0	4
" indirectum	10	0	12
2. TYMPANI, TUBÆ EUSTACHII, ET PORTIONIS MASTOIDEÆ.			
a. *Otitis catarrhalis secernens.*			
Otitis catarrhalis secernens, acuta	23	14	13
" " " " cum hyperplasia tonsillæ pharyngeæ	0	2	0
Otitis catarrhalis secernens mucosa, acuta	9	15	8
" " " " " cum hyperplasia tonsillæ pharyngeæ	0	7	0
Otitis catarrhalis secernens mucosa, chronica	22	31	37
" " " " " cum hyperplasia tonsillæ pharyngeæ	0	12	0
Otitis catarrhalis mucosa, chronica	144	598	173
" " " " cum hyperplasia tonsillæ pharyngeæ	2	59	4
Otitis catarrhalis mucosa chronica cum morbo labyrinthi	0	1	0
Otitis catarrhalis secernens mucosa, acuta	5	2	3
" " " serosa "	8	17	10
" " " " chronica ex tuba	2	6	1

b. *Otitis catarrhalis adhæsiva.*

	A.D.	A.U.	A.S.
Otitis catarrhalis adhæsiva ex secernente	10	66	16
" " " insidiosa	43	150	38
" " " " cum hyperplasia tonsillæ pharyngeæ	0	2	0
Otitis catarrhalis adhæsiva insidiosa, cum morbo labyrinthi	0	2	0

c. *Otitis media acuta.*

Otitis media acuta simplex	249	94	215
" " " cum bulla	5	0	7
" " " " hyperplasia tonsillae pharyngeæ	0	4	1
Otitis media acuta cum ostitide portionis mastoideæ .	14	0	12
" " " " periostitide	2	0	0

d. *Otitis media suppurativa.*

Otitis media suppurativa acuta	57	8	53
" " " " cum abscessu post auriculam	1	0	0
Otitis media suppurativa acuta cum ostitide mastoideæ,	2	0	4
" " " chronica	342	198	307
" " " " cum abscessu post auriculam	2	0	1
Otitis media suppurativa chronica cum atresia meatus,	1	0	0
" " " " " carie mastoidea et meningitide	0	0	1
Otitis media suppurativa chronica cum carie vel ostitide mastoidea	20	1	16
Otitis media suppurativa chronica cum carie ossiculæ,	6	1	5
" " " " " " tympani	1	0	1
" " " " " granulatione tympani	31	12	30
Otitis media suppurativa chronica cum hyperplasia tonsillæ pharyngeæ	1	4	4
Otitis media suppurativa chronica cum periostitide .	0	0	3
" " " " " polypo meatus,	1	0	1
" " " " " " tympani,	39	4	45
Effectus otitis media suppurativa	148	152	116
" " " " cum abscessu cervicis,	0	0	1
" " " " " carie ossis temporis et paralyse nervi facialis	0	0	1

3. Neuroses Auris Mediæ.

	A.D.	A.U.	A.S.
Otalgia dentalis	34	8	27
" nasalis	1	2	3
" neuralgica	5	3	4
Contractiones musculorum auriculæ	0	0	1

Morbi Labyrinthi et Acustici.

Hæmorrhagia	0	0	1
Labyrinthitis	4	3	3
Panotitis	0	2	2
" scarlatinosa	1	2	0
Surditas totalis ex meningitide	0	1	0
" " " panotitide	0	3	0
Surditas senilis	0	1	0
Propriæ notæ Menière	1	1	0

Miscellaneous.

Eloped	7
No diagnosis	25
No ear disease	28
Unfit patients	119

Morbi et Operationes.

Auricula, cornu, remotio	0	0	1
" hæmatoma traumatica, incisio	0	0	1
Calvarium, trepanatio	1	0	0
Cervix, abscessus, incisio	1	0	4
Concha, " "	1	0	0
Lobula, " "	0	0	1
" cystis, remotio	0	1	0
" fibroma "	0	2	0
" papilloma "	1	0	0
Infra auriculam, abscessus, incisio	1	0	0
Meatus, abscessus, incisio	4	0	6
" corpus adventitium inanimale, remotio	1	0	2
" enchondroma, remotio	1	0	0
" granulatio, remotio	1	0	0
" necrosis, remotio	1	0	2
" otitis externa follicularis, incisio	20	0	13
" papilloma, remotio	1	0	0
" polypus, remotio	5	0	5
" sequestrum, remotio	1	0	0

	A.D.	A.U.	A.S.
Membrana tympani, bulla, incisio	2	0	1
" " paracentesis	73	5	87
" " myringodectomia	1	0	2
Mastoideæ, apertio	18	0	18
" necrosis, remotio	1	0	3
Nasus, polypus, remotio	1	1	2
" septum, exostosis, remotio	1	0	2
Nasus et pharynx:			
hyperplasia tonsillæ pharyngeæ, remotio . .	0	33	0
Ossiculæ, necrosis, remotio	8	0	12
" ankylosis, mobilizatio	24	0	18
" et membrana tympani, remotio	1	0	0
Perichondritis, incisio	1	0	0
Post auriculam, abscessus, incisio	4	0	2
Supra " " "	1	0	1
Tonsillæ, remotio	0	2	0
Tragus, abscessus, incisio	1	0	1
" angioma, remotio	0	0	1
Tympanum, granulatio, remotio	3	0	0
" polypus, remotio	27	4	43
Summa		483	

DISEASES OF HOUSE PATIENTS, EAR DEPARTMENT.

Oct. 1, 1892, to Oct. 1, 1893.

I. Morbi Auris Externæ.

a. *Auriculæ.*

	A.D.	A.U.	A S.
Angioma tragus	0	0	1
Eczema vesiculosum	0	1	0
Fibroma lobulæ	0	2	0
Perichondritis	1	0	0
Synechia	1	0	0

b. *Meatus.*

Otitus externa diffusa acuta	1	0	2
" " follicularis	1	0	0

II. Morbi Auris Mediæ.

1. *Membranæ Tympani.*

Trauma directum	0	0	1
" " ex ictu aërio.	0	0	1
" indirectum ex fractura calvariæ	0	0	2

2. *Tympani, Tubæ Eustachii, et Portionis Mastoideæ.*

Otitis catarrhalis adhæsiva ex secernente	0	1	0
Otitis catarrhalis adhæsiva ex secernente cum morbo labyrinthi	1	0	0
Otitis catarrhalis adhæsiva insidiosa	0	11	0
Otitis catarrhalis adhæsiva insidiosa cum morbo labyrinthi	0	2	0
Otitis catarrhalis mucosa chronica	3	29	2
Otitis catarrhalis mucosa chronica cum morbo labyrinthi	0	2	0
Otitis media acuta simplex	11	5	9
" " " cum carie mastoideæ	2	0	2
" " " " meningitide	0	1	0

	A.D.	A.U.	A.S.
Otitis media acuta cum ostitide mastoideæ	17	4	9
" " " " periostitide	1	0	0
" " suppurativa acuta	0	0	1
Otitis media suppurativa acuta cum abscessu post auriculam	1	0	2
Otitis media suppurativa acuta cum carie mastoideæ,	1	0	1
" " " " " meningitide . .	1	0	0
Otitis media suppurativa acuta cum ostitide mastoideæ	2	0	4
Otitis media suppurativa chronica	6	1	6
Otitis media suppurativa chronica cum abscessu cerebri et meningitide.	1	0	0
Otitis media suppurativa chronica cum abscessu post auriculam	3	0	1
Otitis media suppurativa chronica cum abscessu supra auriculam	1	0	0
Otitis media suppurativa chronica cum atresia meatus,	1	0	0
Otitis media suppurativa chronica cum carie mastoideæ	17	1	33
Otitis media suppurativa chronica cum carie mastoideæ et abscessu cervicis	2	0	3
Otitis media suppurativa chronica cum carie mastoideæ et meningitide	2	0	0
Otitis media suppurativa chronica cum carie mastoideæ et paralyse nervi facialis	0	0	1
Otitis media suppurativa chronica cum carie mastoideæ et thrombose venæ jugulæ	0	0	1
Otitis media suppurativa chronica cum carie meatus .	3	0	1
Otitis media suppurativa chronica cum carie meatus et abscessu cervicis	0	0	1
Otitis media suppurativa chronica cum carie ossiculæ,	19	4	13
Otitis media suppurativa chronica cum carie et granulatione tympani	1	0	0
Otitis media suppurativa chronica cum carie tympani,	0	0	2
Otitis media suppurativa chronica cum chondroma meatus	0	0	1
Otitis media suppurativa chronica cum dermatitide erysipelatosa	0	1	0
Otitis media suppurativa chronica cum eczema meatus,	0	0	1
Otitis media suppurativa chronica cum granulatione tympani	0	3	1
Otitis media suppurativa chronica cum ostitide mastoideæ	4	2	13
Otitis media suppurativa chronica cum periostitide .	0	0	1

	A.D.	A.U.	A.S.
Otitis media suppurativa chronica cum polypo tympani,	4	4	3
Effectus otitis mediæ suppurativæ	7	12	6
Effectus otitis mediæ suppurativæ cum abscessu cervicis	0	0	1

MORBI LABYRINTHI ET ACUSTICI.

Labyrinthitis	1	3	0
Panotitis scarlatinosa	0	1	0

NUMBER OF HOUSE PATIENTS:

Male	188
Female	141
Total	329

AGES OF AURAL PATIENTS

Oct. 1, 1892, to Oct. 1, 1893.

Males.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Total.
Births to 3 years.....	4	3	4	2	4	14	9	20	19	10	4	3	96
3 years to 15 years....	30	27	37	24	27	53	55	36	47	45	37	39	457
15 years to 25 years....	50	35	41	43	38	56	60	66	42	70	62	51	614
25 years to 35 years....	49	32	33	40	40	68	54	75	58	57	75	43	614
35 years to 45 years....	17	18	20	24	25	33	30	37	25	42	42	24	347
45 years to 55 years....	17	17	11	20	25	27	25	23	22	25	33	24	269
55 years to 65 years....	7	12	9	9	9	15	12	19	17	20	22	11	162
65 years to 75 years....	7	2	9	3	6	7	4	3	12	15	5	8	81
75 years to 85 years....	1	0	0	2	3	2	1	3	5	2	1	0	20
85 years to 95 years....	0	0	0	0	0	0	0	0	0	0	0	0	0
Total.....	–	–	–	–	–	–	–	–	–	–	–	–	2,660

Females.

Births to 3 years.....	8	4	3	7	6	7	10	18	13	5	5	4	90
3 years to 15 years....	26	31	35	30	29	41	36	40	51	37	33	29	418
15 years to 25 years ...	28	36	39	29	35	37	58	68	45	41	57	47	520
25 years to 35 years....	34	34	33	26	25	30	27	51	40	44	40	49	433
35 years to 45 years....	28	13	23	10	11	23	20	35	19	32	25	36	275
45 years to 55 years....	24	7	9	10	7	12	19	23	10	19	18	16	174
55 years to 65 years....	14	10	8	3	3	8	9	13	11	12	16	16	113
65 years to 75 years....	5	3	1	0	1	2	4	8	3	8	8	4	47
75 years to 85 years....	3	0	0	0	0	2	1	1	1	2	1	0	11
85 years to 95 years....	0	0	0	0	0	0	0	0	0	0	0	1	1
Total.....	–	–	–	–	–	–	–	–	–	–	–	–	2,082

Residences.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Total.
Boston.....	169	143	155	136	151	251	249	295	205	226	238	214	2,432
Massachusetts.....	162	130	153	142	138	179	179	236	231	249	240	168	2,207
Maine.....	4	5	1	2	3	2	0	5	1	1	3	5	32
New Hampshire.....	5	2	4	0	1	3	3	2	0	5	3	3	31
Vermont.....	4	1	0	1	0	0	1	0	1	0	0	0	8
Rhode Island.....	1	1	1	0	0	1	1	0	2	1	0	1	9
Connecticut.....	1	0	0	0	0	0	0	0	0	0	0	0	1
Other States.....	0	0	0	0	1	1	1	2	0	3	0	1	9
British Provinces.....	6	2	1	1	0	0	0	0	0	1	0	2	13

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Total.
New patients.....	352	284	315	282	294	437	434	540	440	486	484	394	4,742
Old patients.....	2,082	1,893	1,808	1,642	1,595	2,140	1,985	2,188	2,098	2,032	1,713	1,708	22,884
Totals.....	2,434	2,177	2,123	1,924	1,889	2,577	2,419	2,728	2,538	2,518	2,197	2,102	27,626

Working days.....	304
Number of Sundays.....	52
" " holidays.....	9
Average number of new patients, daily.....	15
" " " old " "	75
Total average daily.....	90

Occupation of Ear Patients.

Agents	19
Bakers	10
Barbers	14
Blacksmiths	34
Bookkeepers	14
Carpenters	129
Children	383
Clergymen	4
Clerks	255
Cigar makers	13
Cooks	36
Dressmakers	47
Dentists	2
Domestics	364
Drivers	41
Engineers	18
Electricians	19
Farmers	35
Firemen	23
Factory hands	188
Fishermen	6
Hatters	2
Home	648
Hostlers	6
Laborers	501
Leather workers	14
Laundresses	12
Masons	31
Mariners	26
Mechanics	19
Machinists	83

Messengers	31
Metal workers	95
Milliners	10
Mill operatives	97
Musicians	9
Nurses	31
Painters	39
Policemen	5
Porter	13
Printers	33
Plumbers	12
Railroad	35
Rubber workers	32
Seamstresses	66
Shoemakers	62
Soldiers	0
Students	24
School	718
Stone cutters	29
Tailors	76
Teachers	23
Teamsters	66
Traders	1
Waiters	52
Woodworkers	69
Other occupations	118

SIXTY-NINTH

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1894.

BOSTON:
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OFFICERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1894-95.

BOARD OF MANAGERS.

J. COLLINS WARREN, M. D., *President.*
AUGUSTUS HEMENWAY, *Treasurer*, 10 TREMONT STREET, BOSTON.
CHAS. P. CURTIS, JR., *Secretary*, 39 COURT STREET, BOSTON.

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CHARLES P. CURTIS.
CLEMENT K. FAY.
GEORGE P. GARDNER.
F. L. HIGGINSON.
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CHARLES LOWELL.
PERCIVAL LOWELL.
HENRY PARKMAN.
HENRY R. SHAW.

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HASKET DERBY, M. D.
HENRY L. SHAW, M. D.
SAMUEL J. MIXTER, M. D.

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B. JOY JEFFRIES, M. D.
HENRY W. BRADFORD, M. D.
H. BECKLES CHANDLER, M. D.
OLIVER F. WADSWORTH, M. D.
MYLES STANDISH, M. D.
FREDERICK E. CHENEY, M. D.

AURAL SURGEONS.

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J. ORNE GREEN, M. D.
EDMUND D. SPEAR, M. D.

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WM. DUDLEY HALL, M. D.
EDWIN E. JACK, M. D.
FRANK I. PROCTOR, M. D.
ALEXANDER QUACKENBOS, M. D.

ASSISTANT AURAL SURGEONS.

FREDERICK L. JACK, M. D.
HENRY L. MORSE, M. D.
WM. S. BRYANT, M. D.

PATHOLOGIST.

WM. DUDLEY HALL, M. D.

Aural Clinical Assistants.

EDWARD M. PLUMMER, M. D.
EUGENE A. CROCKETT, M. D.

Ophthalmic House Officers.

HENRY H. HASKELL, M. D.
ALMON G. MORSE, M. D.

Aural House Officer.

PHILIP HAMMOND, M. D.

Consulting Neurologist to the Aural Department.

JAMES J. PUTNAM, M. D.

GEORGE STEDMAN, M. D., *Supt.*
MARY H. NUGENT, *Matron.*

ANDREW J. LLOYD, *Optician.*

REPORT OF THE MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1894.

On behalf of the managers we present the annual reports of the Surgeons: —

During the past year the Infirmary has sustained a heavy loss in the death of Mr. Arthur Rotch. His talents were always at the disposal of the managers, and the services and advice constantly given by him have been of great value.

The managers thank Miss Helen C. Bradlee for her gift of one thousand dollars towards the current expenses of the past year.

We present herewith a statement of the Infirmary's receipts and expenditures. Attention is called to the fact that the yearly increase in the number of patients shows an increase in the out-patients only, as the number of house patients, though the applicants increase constantly, is limited by the funds at the disposal of the Board of Managers: —

MASSACHUSETTS CHARITABLE EYE AND EAR INFIRMARY.

Receipts and Expenditures for the Year Ending Sept. 30, 1894.

Receipts:		
Income from investments	$9,086 27	
Income from trustees under will of E. V. Ashton	999 76	
From the Commonwealth	20,000 00	
Rebate bank tax	453 51	
Medicines	3,773 22	
Board patients, sundries, etc.	1,960 65	
		$36,273 41
Balance		1,493 38
		$37,766 79

EXPENDITURES :

Balance last year's account (deficit 1892 and 1893)	$1,954 66	
Gas and water	1,381 90	
Provisions	10,224 10	
Wages and salaries	11,693 55	
House furnishing	1,475 18	
Ice	392 24	
Repairs	2,661 10	
Instruments	371 95	
Medicines	2,501 25	
Fuel	2,540 26	
Library	106 54	
Pittsfield visits	158 00	
Annuities	600 00	
Insurance	356 25	
Stationery, printing, and sundries	777 17	
Incidentals	572 64	
		$37,766 79

The Surgeons' reports show that the patients rarely come from the indolent classes, but from the wage-earners, whose occupations are injurious to the eyes. Many are daily being enabled to return to their work instead of becoming burdens on their relatives or the public.

The managers feel that the condition of Charles River, filled as it is with the evaporating filth from many sewers, is a constant menace to the success of the Infirmary work. The patients are in a susceptible condition, and less able than others to withstand the evil effects of the miasmatic stench which enters the windows of the wards during the summer months.

CHARLES P. CURTIS, JR.,
JOHN HOMANS, 2D,
For the Board of Managers.

REPORT OF THE SURGEONS.

To the Managers of the Massachusetts Charitable Eye and Ear Infirmary,

For the Year Ending Sept. 30, 1894.

Gentlemen, — The Surgeons herewith submit their report for the year ending Sept. 30, 1894.

The numbers of new patients applying for treatment were :

		Last Year.
Eye Patients . . .	14,260	. . 13,258
Ear Patients . . .	5,109	. . . 4,742
Total . . .	19,369	. . . 18,000

These numbers show an increase of seven and one half per cent in eye patients and seven and seven tenths per cent in ear patients over the numbers of last year.

The average daily attendance for the three hundred and four working days in the Ophthalmic Department has been, for *new patients*, forty-six and nine tenths ; for out-patients, old and new, one hundred and seventeen and twenty-two hundredths. The daily average number of house patients was sixty-six.

During the past there have been no marked changes to report, but the Surgeons desire to note their appreciation of the continued advantages of the Pathological laboratory, and of the persistent and valuable services of Dr. Hall in that department.

The thanks of the Surgeons are due to the Assistant Surgeons, Clinical Assistants and House Officers for efficient and faithful co-operation, and to the Superintendent and Matron for ready and intelligent support in their departments.

O. F. WADSWORTH,
EDMUND D. SPEAR,
For the Board of Surgeons.

STATISTICS.

Oct. 1, 1893, to Oct. 1, 1894.

CLASSIFICATION OF PATIENTS, DISEASES, AND OPERATIONS IN EYE DEPARTMENT.

House Patients.

Sex.

Males	494
Females	297
	791

Residence.

Boston	239
Other parts of Massachusetts	503
Maine	14
New Hampshire	23
Vermont	6
Rhode Island	4
British Provinces	1
England	1
	791

Out-Patients.

Sex.

Males	6,972
Females	7,288
	14,260

RESIDENCE.

Boston	7,498
Mass. (not Boston)	6,450
Maine	62
New Hampshire	119
Vermont	29
Rhode Island	20
Connecticut	6
Other States	39
British Provinces	33
England	2
Ireland	2
	14,260

OCCUPATION OF OUT-PATIENTS.

Artisans, etc.	789
Artists	14
At home	310
Bakers	23
Barbers	74
Blacksmiths	95
Bookbinders	44
Butchers	27
Carpenters	262
Children	2,809
Clergymen	14
Clerks	693
Coachmen and Hostlers	90
Compositors and Printers	151
Domestics	1,720
Electricians	37
Engineers	54
Farmers	96
Firemen	46

Fishermen	16
Hotel keepers	18
Housewives	1,732
Laborers	1,010
Masons	115
Messengers	68
Milliners	24
Mill and Factory	966
Musicians	21
Nurses	68
Painters	101
Pedlers	64
Pensioners	23
Photographers	10
Physicians	2
Plumbers	50
Police, etc.	33
Railroad and Street Railroad	158
Sailors	63
Seamstresses	565
Shoemakers	159
Stenographers	47
Stone-cutters	222
Store-keepers	99
Students	391
Tailors	125
Teachers	69
Teamsters	207
Telegraphers	14
Waiters	77
Wood-workers	45
Other occupations	324
Unrecorded	26
	14,260

Diseases of Out-Patients.

Lids.

Abscess	51
Ankyloblepharon	2
Blepharitis	582
Burns	11
Chalazion	366
Cyst	24
Dermatitis	12
Ecchymosis	24
Ectropion	18
Eczema	29
Entropion	15
Epicanthus	5
Epithelioma	12
Erysipelas	1
Foreign body	129
Herpes zoster	7
Hordeolum	75
Lagophthalmus	4
Lipoma	1
Lippitudo	4
Milium	3
Molluscum	2
Naevus	2
Oedema	64
Papilloma	2
Phthiriasis	7
Ptosis	23
Symblepharon	4
Trichiasis	32
Tumors	10
Ulcer (specific)	4

Ulcer (vaccine)	1
Verruca	2
Wound	27
Xanthelasma	4
	1,559

Lachrymal Apparatus.

Abscess	52
Atresia of punctum (congen.)	1
Catarrh of sac	25
Epiphora and Lachrymal obstruction	309
Fistula	4
Mucocele	34
	425

Conjunctiva.

Burns	42
Conjunctivitis catarrhal acute	1,984
" " chronic	458
" diphtheritic	5
" follicular	60
" gonorrhœal	25
" granular	268
" " with pannus	33
" muco-purulent	78
" neonatorum	52
" phlyctenular	299
" strumous	9
" traumatic	130
Cuts	13
Cysts	4
Ecchymosis	95
Foreign body	39
Hyperæmia	4

Lymphangiectasis	1
Oedema	3
Pinguecula	20
Pigmented caruncle	1
Pterygium	86
Tumor	9
	3,718

Cornea and Sclera.

Abrasion	127
Abscess	13
Burn	35
Episcleritis	61
Foreign body cornea	975
" " sclera	3
Infiltration cornea	14
Keratitis bullous	4
" interstitial	30
" phlyctenular	291
" simple	329
" traumatic	28
" vascular	56
Keratoconus	10
Kerato-iritis	14
Leucoma	302
" adhærens	6
" inflamed	39
Maculæ of cornea	3
Microcornea	2
Nebulæ	59
Rupture of cornea	4
" " sclera	3
Scleritis	9
Sclero-keratitis	19

Staphyloma of cornea	7
" of sclera	4
Tumor of cornea	7
" " sclera	1
Ulcer of cornea	352
" wtth hypopyon	27
" serpiginous	7
" traumatic	47
" vascular	21
Wound of ciliary region	20
" " cornea	51
" " sclera	2
	2,982

Iris and Ciliary Body.

Ciliary injection	33
Foreign body, iris	3
Irido-cyclitis	8
" -dialysis	7
Irido donesis	6
Iritis, rheumatic	209
" specific	44
" traumatic	17
Mydriasis	19
" artificial	21
Occluded pupil	18
Persistent pupillary membrane	2
Synechia anterior	13
" posterior	18
Tumor of iris	1
	419

Lens.

Aphakia	2
Cataract, anterior pyramidal	13

Cataract, capsular	10
" congenital	17
" cortical	2
" cretaceous	5
" incipient	132
" lamellar	3
" mature	176
" Morgagnian	1
" posterior polar	5
" traumatic	62
Dislocated lens	15
Opacities of lens	63
	506

Vitreous.

Cholesterin	1
Hemorrhage	3
Hyalitis	4
Muscæ volitantes	31
Opacities	50
	89

Optic Nerve.

Atrophy	54
Neuritis	29
" retro-bulbar	2
	85

Retina.

Changes in macula	21
Embolism, central artery	4
Hemorrhage in macula	1
Neuro-retinitis	16
Pigmentary degeneration retina	4
Retinitis	16

Retinitis, albuminuric	7
" hemorrhagic	4
Separation of retina	26
	99

Choroid.

Albinism	4
Atrophy	7
Choroiditis	36
Glaucoma	62
Irido-choroiditis	8
" " sympathetic	3
Retino-choroiditis	6
Rupture of choroid	1
Sclerotico-choroiditis, posterior	16
Staphyloma, posterior	117
	260

Globe and Orbit.

Abcess frontal sinus	1
Anophthalmus	2
Disorganized globe	30
Emphysema orbit	2
Foreign body globe	9
Hydrophthalmus	2
Irritable orbit	5
Microphthalmus	2
Panophthalmitis	2
Phthisis bulbi	32
Rupture globe	5
Tumor brow	1
" globe	2
" orbit	7
	102

General Injuries.

Blows and cuts	141
Burns	15
	156

Accommodation and Refraction.

Asthenopia	41
Astigmatism	1,319
" irregular	32
Hypermetropia	1,740
Myopia	337
Paralysis of accommodation	2
Presbyopia	518
	3,989

Affections of the Percipient Apparatus.

Amblyopia	25
" (alcohol, tobacco, etc.)	48
Hemeralopia	2
Nyctalopia	2
Photopsia	3
	80

Muscular Affections and Neuroses.

Blepharospasm	11
Ciliary neuralgia	9
Conjugate deviation	2
Cycloplegia	4
Diplopia	9
Exophthalmic goitre	2
Insufficiency internal recti	8
Locomotor Ataxia	2
Nictitation	9
Nystagmus	27

Paralysis of facial nerve	8
" " fourth "	1
" " sixth "	13
" " third "	14
" " inferior rectus muscle	1
Photophobia	3
Strabismus, alternating	8
" convergent	262
" divergent	43
" transient	8
Supra-orbital neuralgia	2
	446

Miscellaneous.

Eloped	45
Entered by mistake	3
No disease	16
Referred to Ear Department	18
" " other institutions	53
Unfit	400
Unrecorded	202
	737

Summary of Diseases.

Lids	1,559
Lachrymal Apparatus	425
Conjunctiva	3,718
Cornea and Sclera	2,982
Iris and Ciliary Body	419
Lens	506
Vitreous	89
Optic Nerve	85
Retina	99
Choroid	260

Globe and Orbit	102
General Injuries	156
Accommodation and Refraction	3,989
Affections of the Percipient Apparatus	80
Muscular Affections and Neuroses	446
Miscellaneous	737
	15,652

Diseases of House Patients.

Abscess, cornea	9
" frontal sinus	1
" lachrymal sac	5
" lid	1
Ankyloblepharon	1
Astigmatism	2
Blepharitis	1
Burn, cornea	4
" lid	1
" general	7
Cataract, congenital	14
" diabetic	4
" secondary	16
" senile	160
" traumatic	30
Chalazion	1
Choroiditis	1
Conjunctivitis, catarrhal	3
" diphtheritic	3
" granular with pannus	21
" muco-purulent	7
Dislocated lens	2
Disorganized globe	23
Ectropion	3
Embolism central artery retina	2

Entropion	5
Episcleritis	1
Epithelioma, cornea	1
" lid	7
Foreign body, cornea	1
" " globe	3
" " iris	2
" " lens	1
Glaucoma, acute	9
" chronic	9
" secondary	7
Gonorrhœal ophthalmia, adults	16
" " children and infants	10
Gumma of iris	3
Hyalitis	2
Hydropthalmus	1
Hypermetropia	1
Irido-cyclitis	11
" sympathetic	10
Iritis, rheumatic	19
" specific	9
Keratitis	20
" interstitial	9
" phlyctenular	24
" vascular	28
Kerato-iritis	8
Keloid cicatrix	1
Lachrymal obstruction	1
Lead deposit, cornea	1
Leucoma	4
" adherent	1
Leucoma, inflamed	3
Melano-sarcoma, conjunctiva	1
Microphthalmus	1

Neuritis	1
Occluded pupil	11
Oedema of lid	1
Optic atrophy	1
Panophthalmitis	4
Papillitis	1
Phthisis bulbi	6
Pterygium	8
Ptosis	2
Retinitis, albuminuric	1
Sarcoma, lachrymal gland	1
" orbit	4
Scleritis	1
Seperation of retina	5
Staphyloma, anterior	7
" ciliary region	3
Strabismus, alternating	1
" convergent	13
" divergent	2
Symblepharon	4
Sympathetic irritation	1
Trichiasis	2
Tubercular growth of ciliary body	1
Tumor, orbit	3
Ulcer, cornea	38
" " with hypopyon	33
" " with prolapsed iris	6
" " serpens	6
Ulcer, cornea, traumatic	3
Wound, ciliary region	40
" cornea	16
" lid	1
" sclera	1

Miscellaneous	8
No disease	1
Entered by mistake	2
	791

Operations.

Lids.

Abscess	26
Canthoplasty	2
Chalazion	140
Cyst of brow and lid	9
Entropion and trichiasis, Green's operation	8
" " " other operations	8
Epithelioma, electrolysis	5
" excised	2
Other tumors "	1
Plastic operations	5
Ptosis, Pagenstecher's operation	2
Skin graft, Tiersch	1
Trachoma, Prince forceps	3
	213

Conjunctiva.

Foreign body removed	2
Pterygium, Desmarres' operation	21
" Hotz's "	5
Symblepharon	2
	30

Cornea.

Abscess curetted	1
Cystoid cicatrix	2
Foreign body removed	973
Lead deposit "	2

Paracentesis for glaucoma	2
" " hypopyon	3
Saemisch's operation for hypopyon	7
Staphyloma, Bader's operation	1
Tumor, cornea	2
	993

Iris.

Hernia reduced	1
Iridectomy for artificial pupil	19
" " foreign body in iris	1
" " glaucoma	19
" " occluded pupil	3
" " prolapsed iris	10
" preliminary to cataract extraction	8
Iridotomy	1
	62

Lens.

Capsule operations	47
Cataract extractions, modified Graefe	85
" " simple	34
" " " with buttonhole of iris	24
" " suction	13
Discissions	55
Dislocated lens removed	1
	259

Enucleation.

For disorganized globe	16
" foreign body in globe	2
" glaucoma	2
" microphthalmus	1
" panophthalmitis	3

For phthisis bulbi	7
" sympathetic inflammation	3
" " " threatened	40
" tumor of globe	4
" " " orbit	3
	81

Muscles.

Advancement external rectus	5
Partial tenotomies	3
Tenotomies, internal rectus	60
" external rectus	2
	70

Miscellaneous.

Abscess globe incised	2
" lachrymal duct incised	15
" orbit incised	1
Bowman's operation	5
Foreign body globe, magnet	1
" " anterior chamber, magnet	3
Exploratory operations	3
Granulations of orbit	2
Keloid cicatrix	1
New growth, lachrymal gland	1
" " orbit	1
Other operations	6
	41

REPORT OF ONE HUNDRED AND THIRTY-EIGHT

Cataract Extractions.

PERFORMED AT THE INFIRMARY BY THE OPHTHALMIC STAFF DURING THE YEAR ENDING AUG. 30, 1894.

COMPILED BY O. F. WADSWORTH, M. D.

These cases were operated on by the following methods : —

Extraction with Iridectomy	84
Simple Extraction	27
Extraction with button-hole of the iris	27
	138

The resulting vision in these hundred and thirty-eight extractions was : —

Vision = 1	5	Vision = 0.08	3
" = 0.9	5	" = 0.05	2
" = 0.8	3	" = 0.02	1
" = 0.7	5	" = figures at 10 cm.	1
" = 0.6	9	" = perception of light	4
" = 0.5	9	" = unrecorded	1
" = 0.4	25	" = died	3
" = 0.3	21		138
" = 0.2	23		
" = 0.1	18		

In the case in which vision was not recorded, the result of the operation was good, but the patient was an Italian entirely ignorant of English.

In about half of the cases the vision recorded was that found just before the patient was discharged from the Infirmary. To judge from the result in other cases, it would often have been decidedly better if taken at a later date. In twenty-four cases a secondary operation was done. One patient was so unruly that ether was given; in all other cases the operation was done under cocaine. Antisepsis was employed in all operations.

Besides the above cases there were eight extractions, by various methods, in cases of trauma, dislocation of lens into vitreous or anterior chamber, glaucoma, etc.

The three cases of death, so unusual a result after operation for cataract, deserve special notice.

The first was a woman of forty-seven years of age, diabetic, but otherwise in apparently fair health. The operation was smooth, and caused no evident mental shock. She became drowsy on the second day, and soon developed a low delirium. The bandage was omitted on the fourth day, the wound was healed and the eye quiet. She died on the fifth day of diabetic coma.

The second was a man of sixty-five years. On the fifteenth day the wound was healed and the eye quiet. Three days later there appeared symptoms pointing to intestinal obstruction. He was soon after removed to the Massachusetts General Hospital, where laparotomy was done, and a portion of gangrenous intestine, caused by thrombus in a branch of the mesenteric artery, removed, but he did not recover.

The third was a man of eighty years. On the third day there was beginning suppuration of the wound. On the fourth day he became delirious, and later had convulsions. The diagnosis was made of probable hemorrhage in the pores. He died on the tenth day.

In the second case, there is no likelihood that the operation had any part in promoting the lesion which caused death; in the other two, the confinement to bed probably hastened a result which might, in the condition of the patients, have occurred at any time.

EXTRACTIONS WITH IRIDECTOMY.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	Female. 58 Irish. Good.	2½ years. Senile. Good.	Sept. 1, 1893. Cocaine. Recovery normal. Some capsule. Bandage omitted on eighth day. 15 days.	V. = 0.4.
2	Female. 38 Nova Scotia. Fair.	8 years. Senile. Good.	Sept. 2, 1893. Cocaine. Recovery normal. Pupil clear. Bandage omitted on seventh day. 16 days.	V. = 0.2.
3	Female. 71 Amer. Good.	5 years. Senile. Good.	Sept. 8, 1893. Cocaine. Dermatitis from atropine. Otherwise normal. Bandage omitted on fifth day. 19 days.	V. = 0.2.
4	Male. 79 Nova Scotia. Good.	Senile. Good.	Sept. 12, 1893. Cocaine. Patient delirious on third day and tore off bandage. Small prolapse of iris. 13 days.	V. = 0.08.
5	Male. 55 Irish. Good.	3 years. Senile. Good.	Sept. 14, 1893. Cocaine. Recovery normal. 15 days.	V. = 0.2.
6	Male. 72 Amer. Good.	9 years. Traumatic (?). Good.	Sept. 22, 1893. Cocaine. Capsule tough and adherent to iris. Finally rotated out with hook. Bandage omitted on eighth day. Some capsule. Secondary on Oct. 12, 1893. 22 days.	V. = 0.02.
7	Male. 65 Irish. Poor.	21 years. Senile. Good.	Sept. 29, 1893. Cocaine. Cataract hypermature. Lens partly fluid. Recovery normal. Bandage omitted on seventh day. 14 days.	V. = 0.1.
8	Female. 53 Amer. Good.	4 years. Senile. Good.	Oct. 4, 1893. Cocaine. Recovery normal. Some capsule. Bandage omitted on eighth day. 14 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
9	Male. 66 Amer. Good.	3 years. Senile. Good.	Oct. 6, 1893. Cocaine. Recovery normal. Bandage omitted on eighth day. 13 days.	V. = 0.2.
10	Male. 39 Amer. Good.	9 months. Senile. Good.	Oct. 6, 1893. Cocaine. Recovery normal. Bandage omitted on ninth day. 13 days.	V. = 0.6.
11	Male. 53 Swiss. Good.	1½ years. Senile. Good.	Oct. 10, 1893. Cocaine. Recovery normal. Bandage omitted on ninth day. 14 days.	V. = 0.6.
12	Male. 72 Amer. Good.	1½ years. Senile. Good.	Oct. 10, 1893. Cocaine. Recovery normal. Patient discharged at own request while eye was still injected. 14 days.	V. = 0.1.
13	Female. 75 German. Good.	4 years. Senile. Good.	Oct. 10, 1893. Cocaine. Recovery normal. Bandage omitted on ninth day. 21 days.	V. = 0.1.
14	Female. 39 German. Good.	4 years. Senile. Good.	Oct. 13, 1893. Cocaine. Recovery normal. Bandage omitted on seventh day. 11 days.	V. = 1.00.
15	Female. 69 Irish. Fair.	2½ years. Senile. Good.	Oct. 17, 1893. Cocaine. Recovery normal. Bandage omitted on eighth day. 10 days.	V. = 0.3.
16	Male. 70 Irish. Good.	1½ years. Senile. Good.	Oct. 17, 1893. Cocaine. Lens removed with scoop. Considerable semi-fluid vitreous lost. Recovery normal. Bandage omitted on eleventh day. 24 days.	V. = 0.3.
17	Female. 73 Amer. Good.	7 years. Senile. Good.	Oct. 17, 1893. Cocaine. Recovery normal. Bandage omitted on eighth day. 14 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
18	Male. 68 Irish. Good.	2 years. Senile. Good.	Oct. 18, 1893. Cocaine. Patient kept moving eye and caused a small cut, which had to be enlarged. Lens extracted with difficulty. Wound healed slowly. Iritis and ulcer of cornea on thirteenth day. 28 days.	V. = 0.2.
19	Female. 68 Irish. Good.	3 years. Senile. Good.	Oct. 20. 1893. Cocaine. Recovery normal. Bandage omitted on eleventh day. 15 days.	V. = 0.3.
20	Female. 65 Amer. Poor. Potts' Disease. Very Deaf.	Senile. Poor. Blocked pupil.	Oct. 20, 1893. Cocaine. Slight loss of vitreous when opaque membrane was removed from pupil with forceps. Bandage omitted on fifth day. Considerable capsule in pupil. 13 days.	V. = 0.08.
21	Male. 65 Irish. Good.	1⅔ years. Traumatic. Good.	Sept. 20, 1893. Cocaine. Recovery normal, but healing process slow. 24 days.	V. = 0.4.
22	Female. 69 Amer. Good.	4 years. Senile. Good.	Oct. 27, 1893. Cocaine. Recovery normal. Bandage omitted on seventh day. Secondary, Feb. 1, 1894. 14 days.	V. = 0.3.
23	Male. 60 Irish. Good.	3 years. Senile. Good.	Oct. 27, 1893. Cocaine. Capsule thick and opaque. Recovery normal. Bandage omitted on eighth day. Opaque membrane in pupil. 14 days.	V. = 0.1.
24	Male. 82 Amer. Good.	8 years. Senile. Good.	Oct. 27, 1893. Cocaine. Capsule almost cretaceous. Recovery slow. Bandage omitted on eighth day. 31 days.	V. = 0.05.
25	Female. 59 Amer. Good.	6 years. Senile. Good.	Oct. 27, 1893. Cocaine. Recovery normal. Some opaque capsule in pupil. Bandage omitted on ninth day. 22 days.	V. = 0.08.
26	Female. 70 Amer. Good.	4 years. Senile. Good.	Nov. 9, 1893. Cocaine. Iritis on second day. Bandage omitted on fifth day. Eye quiet. 14 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
27	Male. 60 Nova Scotia. Good.	3 years. Senile. Good.	Nov. 21, 1893. Cocaine. Bandage omitted on ninth day. Small tag of iris in wound. 19 days.	V. = 0.6.
28	Male. 69 Scotch. Good.	1 year. Senile. Good.	Dec. 14, 1893. Cocaine. Recovery retarded because patient removed bandage on second day. Bandage omitted on eighth day. Secondary on Feb. 1, 1894. 17 days.	V. = 0.5.
29	Male. 60 Amer. Good.	2½ years. Senile. Good.	Dec. 13, 1893. Cocaine. Bandage omitted on eighth day. Slight prolapse of iris. Secondary on Feb. 15, 1894. 18 days.	V. = 0.1.
30	Female. 47 Amer. Good.	2 years. Senile. Good.	Dec. 26, 1893. Cocaine. Some opaque capsule left in pupil. Bandage omitted on ninth day. Capsule present. Capsule divided Jan. 15, 1894. 28 days.	V. = 1.00.
31	Male. 75 Amer. Good.	4 years. Senile. Good.	Dec. 27, 1893. Cocaine. Bandage omitted on eighth day. Has had slight iritis. Pupil dilates well. Some opaque capsule. Secondary, Jan 15, 1894. 24 days.	V. = 0.7.
32	Male. 69 Amer. Good.	3 years. Senile. Good.	Dec. 30, 1893. Cocaine. Patient slightly delirious on fifth day, and hit eye, causing hemorrhage into anterior chamber. Bandage omitted on ninth day. Opaque capsule. Secondary, Jan. 25, 1894. 51 days.	V. = 0.4.
33	Female. 72 Irish. Good.	1½ years. Senile. Good.	Jan 12, 1894. Cocaine. Iridectomy done after extraction of lens, on account of position of wound being too far from margin of cornea. Anterior chamber not reformed till eighth day. Bandage omitted on fourteenth day. 18 days.	V. = 0.3.
34	Male. 69 German. Poor. Chronic Malaria. Anæmic.	32 years. Senile. Good.	Jan. 15, 1894. Cocaine. Scoop used to remove some cortical and considerable vitreous lost. Bandage omitted on eighth day. Iritis and hypopyon on twenty-eighth day. Slow progress. Patient demented, and eloped March 6. Returned March 8. March 22, eye better. Insists on going home. 65 days.	V. = perception of light.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
35	Male. 78 Irish. Good.	6 years. Senile. Good.	Jan. 19, 1894. Cocaine. Globe soft. Cornea collapsed after operation. Monocular bandage on seventh day. Bandage omitted on twelfth day. 29 days.	V = 0.3.
36	Male. 78 Irish. Good.	3 years. Senile. Good.	Feb. 3, 1894. Cocaine. Simple extraction, followed by iridectomy to remove soft cortical. Cornea collapsed. Patient delirious on fourth day. Monocular bandage. Anterior chamber not reformed till seventh day. Bandage omitted seventh day. Same patient as No. 35. Other eye. 14 days	V. = 0.2.
37	Male. 39 Can'd'n. Good.	3 years. Senile. Good.	Feb. 12, 1894. Cocaine. Recovery normal. Bandage omitted on tenth day. Pupil large and clear. 16 days.	V. = 0.6.
38	Female. 50 German. Good.	2 years. Senile. Good.	Feb. 23, 1894. Cocaine. Recovery normal. Bandage omitted on sixth day. secondary on March 10, 1894. 23 days.	V. = 0.3.
39	Female. 38 Amer. Fair.	1½ years. Immature. Senile. Good. Choroidal changes.	Feb. 19, 1894. Cocaine. Recovery normal. Bandage omitted on eighth day. Thin capsule present. High myopia with thinning of choroid and deposits of pigment. 19 days.	V. = 0.1.
40	Female. 60 Irish. Good.	3 years. Senile. Good.	Feb. 24, 1894. Cocaine. Bandage omitted during day on eighth day. Bandage omitted on fifteenth day. Recovery normal. 22 days.	V. = 0.4.
41	Female. 75 Amer. Good.	3⅓ years. Senile. Good.	Feb. 24, 1894. Cocaine. Lens extracted with difficulty owing to adhesions of capsule to iris. Bandage omitted on seventh day. Several posterior synechiæ with small pupil. Opaque capsule in pupil. 22 days.	V. = 0.4.
42	Female. 49 Amer. Good.	3 years. Senile. Good.	Feb. 28, 1894. Cocaine. Recovery normal. Bandage omitted on eighth day. 20 days.	V. = 0.9.
43	Male. 39 Negro. Good.	1 year. Senile. Good.	March 16, 1894. Cocaine. Lens soft. Small nucleus. Recovery normal. Bandage omitted on eighth day. 14 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
44	Male. 32 English. Good.	1½ years. Senile. Good.	March 20, 1894. Cocaine. Lens very soft. Recovery normal. Bandage omitted on eighth day. 14 days.	V. = 0.3.
45	Female. 69 Amer. Good.	2 years. Senile. Good.	March 23, 1894. Cocaine. Bandage omitted on eighth day. Capsule present. Several posterior synechiæ. 23 days.	V. = 0.4.
46	Female. 63 Amer. Good.	2 years. Senile. Good.	March 23, 1894. Cocaine. Bandage omitted on eighth day. Small anterior synechia. Dense capsule filling all but centre of pupil, where there is a clear space. 30 days.	V. = 0.7.
47	Female. 74 Negro. Fair.	1 year. Senile. Good.	April 6, 1894. Cocaine. Patient behaved badly during operation, rolling eye and squeezing lids. A little vitreous lost and anterior chamber full of blood. Patient unruly during recovery and kept disturbing bandage. Small prolapse of iris. 27 days.	V. = 0.2.
48	Female. 83 Amer. Fair.	3½ years. Senile. Good.	April 20, 1894. Cocaine. Recovery normal. Bandage omitted on eighth day. Dense capsule present. 29 days.	V. = 0.4.
49	Female. 78 Amer. Good.	8 years. Senile. Good.	April 24, 1894. Cocaine. Recovery normal. Bandage omitted on eighth day. Capsule present. 25 days.	V. = 0.5.
50	Male. 64 Irish. Fair.	4 years. Senile. Pupil blocked. Good.	May 1, 1894. Cocaine. Lens bound to iris by adhesions, and extracted with difficulty. Bandage omitted on eighth day. Pupil large and round. Dense capsule present. 22 days.	V. = 0.1.
51	Female. 60 New F'dland. Feeble.	4 years. Senile. Hypermature. Good.	May 5, 1894. Cocaine. Globe soft. Fluid vitreous presented when cut was made. Capsule cretaceous. Lens removed with difficulty with scoop, without loss of vitreous. Considerable hemorrhage into anterior chamber. On fifth day chemosis of conjunctiva and yellow mass in anterior chamber. Mass absorbed, but purulent iritis started on seventeenth day. June 21, eye quiet. Cornea hazy. 48 days.	V. = perception of light.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
52	Female. 67 Amer. Good.	8 years. Senile. Lens sclerosed. Counts fingers. Good.	May 9, 1894. Cocaine. After usual incision and iridectomy, lens refused to present on account of iritic adhesions. Cut enlarged. Lens finally rotated out with hook. Cornea collapsed after operation. Bandage omitted on eighth day. Two iritic adhesions. Eye quiet. 17 days.	V. = 0.4.
53	Female. 62 Irish. Fair.	3 years. Senile. Good.	May 15, 1894. Cocaine. Lens capsule found adherent to iris, and incision had to be enlarged. Patient squeezed lids and caused escape of normal looking vitreous. Bandage omitted on eighth day. Tag of iris in wound. Eye injected. Slight iritis. 21 days.	V. = 0.2.
54	Female. 74 Amer. Good.	1½ years, Senile. Good.	May 15, 1894. Cocaine. Globe soft. Cornea collapsed after operation. Recovery normal. Bandage omitted on eighth day. 18 days.	V. = 0.3.
55	Male. 55 Amer. Good.	6 years. Senile. Good.	May 15, 1894. Cocaine. Recovery normal. Bandage omitted on eighth day. 15 days.	V. = 0.1.
56	Male. 60 Haytian. Poor. History of Rheumatism and Diabetes Mellitus. No sug'r found.	5 years. Senile. Good.	May 15, 1894. Cocaine. Bandage omitted on eighth day. Eye fairly white. Pupil large and fairly clear. On fourteenth day, pain, iritis, hypopyon. Eye slowly whitened and pus was absorbed, leaving opaque yellow mass in pupil. T. = n. Further operation deemed inadvisable. 60 days. (For other eye *vide* No. 79.)	V. = perception of light.
57	Female. 67 English Good.	2 years. Senile. Good.	May 24, 1894. Cocaine. Recovery normal. Bandage omitted on seventh day. Large pupil. Piece of cortical in upper part. 18 days.	V. = 0.4.
58	Female. 49 Amer. Poor. Very anæmic and feeble.	3½ years. Traumatic (?) Good.	May 24, 1894. Cocaine. Recovery normal. Bandage omitted on ninth day. Recovery retarded by attack of tonsilitis. Some capsule in pupil. 31 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
59	Male. 64 Amer. Good.	2 years. Senile. Good.	May 24, 1894. Cocaine. Recovery normal. Bandage omitted on seventh day. Pupil clear. 26 days.	V. = 0.7.
60	Male. 62 Amer. Good.	2 years. Senile. Good.	May 24, 1894. Cocaine. Cut rather small. Lens extracted with difficulty, leaving considerable cortical. Bandage omitted on seventh day. Some cortical, with clear space through it centrally. 24 days.	V. = 0.6.
61	Male. 55 English. Good.	2 years. Senile. Good.	May 29, 1894. Cocaine. Considerable soft cortical, removed by stroking. Pupil black. Bandage omitted on eighth day. Pupil filled with opaque cortical, which slowly absorbed. 22 days.	V. = 0.2.
62	Male. 65 Amer. Good.	Traumatic. 9 years. Poor.	June 2, 1894. Cocaine. Wound healed slowly. Bandage omitted on fifteenth day. Eye quiet. On June 19 patient had attack of intestinal obstruction. Two days later transferred to M. G. H. where he died. Thrombosis of a mesenteric artery was found. 20 days.	Died.
63	Male. 68 Amer. Good.	7 years. Senile. Good.	June 2, 1894. Cocaine. Recovery normal. Bandage omitted on eighth day. Pupil clear. 20 days.	V. = 0.4.
64	Male. 79 Amer. Fair.	1 year. Senile. Good.	June 5, 1894. Cocaine. Recovery normal. Bandage omitted on fifth day. Pupil clear. 17 days.	V. = 0.3.
65	Male. 67 Irish. Good.	2 years. Senile. Good.	June 6, 1894. Cocaine. Small nucleus; much sticky cortical, mostly removed by stroking. Cornea collapsed after operation. Anterior chamber slow in reforming. Pupil filled with opaque cortical. Patient run down. 53 days.	V. = perception of light.
66	Male. 67 Amer. Good.	9 years. Senile. Good.	June 6, 1894. Cocaine. Cataract overmature. Bandage omitted on seventh day. Pupil clear. 16 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
67	Male. 66 Irish. Poor. Anæmic.	4 months. Senile. Good.	June 21, 1894. Cocaine. Cornea cloudy on sixth day and pus forming in anterior chamber. Bandage omitted. Pus absorbed rapidly. Wound open on nineteenth day with more pus. One week later wound closed and cornea clearer. Pupil blocked. During next six weeks a succession of hemorrhages into anterior chamber without pain. Patient very feeble. Sept. 8, 1894, no blood in anterior chamber. Pupil filled with opaque mass. 80 days.	V. = Fingers at 10 cm.
68	Male. 80 Irish. Good.	8 years. Senile. Good.	June 23, 1894. Cocaine. Wound infiltrated and pus forming on third day. On fourth day patient delirious, with convulsions later. Diagnosis made of probable hemorrhage into pons. Died six days later. 10 days.	Died.
69	Female. 80 Spanish. Good.	1½ years. Senile. Good.	July 2, 1894. Cocaine. Lens sticky. Cut enlarged. Bandage omitted on sixth day. Iritis. Capsule present. Eye quieted down slowly; white at end of a month. 34 days.	V. = about 0.1. Illiterate.
70	Male. 67 Amer. Good.	1½ years. Senile. Good.	July 3, 1894. Cocaine. Capsule tough. Wound enlarged. Some opaque capsule remained in pupil. Bandage omitted on eighth day. Tag of iris in wound, due to patient hitting eye. Eye quieted down. 26 days.	V. = 0.3.
71	Male. 64 German. Good.	2 years. Senile. Good.	July 3, 1894. Cocaine. Recovery normal. Bandage omitted on eighth day Some cortical present, which slowly absorbed. Capsule opaque above. 26 days.	V. = 0.2.
72	Female. 67 Irish. Good.	1½ years. Senile. Good.	July 5, 1894. Cocaine. Cortical left in pupil. Bandage omitted on eighth day. Cortical absorbed rapidly; pupil clear centrally. 37 days.	V. = 0.2.
73	Female. 60 Irish. Good.	3 years. Senile. Good.	July 5, 1894. Cocaine. Simple extraction, followed by iridectomy to remove soft cortical above. Opaque capsule removed with forceps. Bandage omitted on sixth day. Some capsule. Eye kept irritable by purulent lachrymal sac. 31 days.	V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
74	Female. 48 P. E. I. Good.	12 years. Senile. Good. Counts fingers.	July 19, 1894. Cocaine. Recovery normal. Bandage omitted on ninth day. 15 days.	V. = 0.6.
75	Female. 50 Irish. Good.	2½ years. Senile. Good.	July 24, 1894. Cocaine. Bandage omitted on seventh day. Slight prolapse of iris. 21 days.	V. = 0 9.
76	Male. 68 Amer. Good.	10 years. Senile. Good.	July 24, 1894. Cocaine. Recovery normal. Bandage omitted on seventh day. Capsule present. 14 days.	V. = 0.4.
77	Male. 69 Amer. Good.	1½ years. Senile. Good.	Aug. 4, 1894. Cocaine. Cornea collapsed after incision was made. Bandage omitted on seventh day. 15 days.	V. = 0.7.
78	Female. 80 Irish. Good.	4 years. Senile. Good.	Aug. 3, 1894. Cocaine. Patient kept rolling eye about and tore iris while iridectomy was being done. Bandage omitted on eleventh day. Some cortical, which slowly absorbed. 29 days.	V. = 0.4.
79	Male. 60 Haytian. Poor. History of Rheumatism and Diabetes Mellitus	5 years. Senile. Good.	Aug. 7, 1894. Cocaine. Cornea collapsed after operation. Bandage omitted on eighth day. Recovery normal. 39 days.	V. = 0.5.
80	Female. 55 Irish. Fair.	2½ years. Senile. Good.	Aug. 9, 1894. Cocaine. Simple extraction followed by iridectomy, as a gush of vitreous (fluid) occurred on delivery of lens. Bandage omitted on eighth day. Some capsule. Obstinate iritis. Sept. 4, eye white. 40 days.	V. = 0.2.
81	Male. 67 Irish. Fair.	1 year. Senile. Good.	Aug. 9, 1894. Cocaine. Recovery normal. Bandage omitted on tenth day. 23 days.	V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
82	Female. 72 Irish. Poor.	2½ years. Senile. Good.	Aug. 27, 1894. Cocaine. Simple extraction followed by iridectomy to remove soft cortical. Bandage omitted on seventh day. Some capsule. 26 days.	V. = 0.1.
83	Female. 76 Amer. Fair.	2½ years. Senile. Good.	Aug. 27, 1894. Preliminary iridectomy 2 months ago. Cocaine. Much clear and sticky cortical. Some left in pupil. Bandage omitted on seventh day. Capsule present. 26 days.	V. = 0.1.
84	Male. 67 Amer. Good.	3 years. Senile. Good.	Aug. 30, 1894. Cocaine. Cornea collapsed. Hemorrhage into anterior chamber. Bandage omitted on eighth day. Some blood in anterior chamber. Some capsule. 17 days.	V. = 0.4.

SIMPLE EXTRACTIONS.

1	Male. 65 Irish. Good.	1¾ years. Senile. Good.	Oct. 9, 1893. Cocaine. Recovery normal. Bandage omitted on fourth day. Some capsule. Secondary on Oct. 19, 1893. 15 days.	V. = 0.4.
2	Male. 56 Amer. Good.	1 year. Senile. Good.	Oct. 23, 1893. Cocaine. Recovery normal. Bandage omitted on fourth day. Some capsule. Secondary on April 26, 1894. 17 days.	V. = 0.9.
3	Female. 67 Amer. Good.	16 years. Senile. Good.	Oct. 26, 1893. Cocaine. Bandage omitted on fourth day. Some capsule in pupil. Eye injected for some days. 31 days.	V. = 0.6.
4	Male. 68 Irish. Good.	5 years. Senile. Good.	Oct. 30, 1893. Cocaine. A little fluid cortical escaped when capsule was ruptured. Some cortical and capsule remained in pupil. Attempt to remove capsule with forceps caused escape of some vitreous into anterior chamber. Later a small amount of vitreous escaped from wound; cut off with scissors. Wound in good position. Anterior chamber slow in reforming. Bandage omitted on sixth day. Some cortical present, which steadily absorbed. 26 days.	V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
5	Male. 45 Irish. Good.	2 years. Senile. Good. Small Leucoma	Nov. 2, 1893. Cocaine. Recovery normal. Bandage omitted on fifth day. Eye quiet. 14 days.	V. = 0.3.
6	Female. 38 Negro. Good.	8 months. Senile. Good.	Nov. 6, 1893. Cocaine. Recovery normal. Bandage omitted on fourth day. Considerable opaque cortical present. Secondary, Nov. 27. Good central opening in membrane. 27 days.	V. = 0.5.
7	Female. 72 Amer. Fair.	8 years. Senile. Good.	Nov. 9, 1893. Cocaine. Recovery normal. Bandage omitted on fifth day. Some capsule. Ophthalmoscope shows myopia, with large crescent extending well into macula region. 16 days.	V. = 0.05.
8	Male. 70 Canad'n. Good.	2 years. Senile. Good.	Nov. 13, 1893. Cocaine. Bandage omitted on fourth day. Some cortical in pupil. Four days later patient delirious and violent. All right five days later. 12 days.	V. = 0.8.
9	Female. 47 Irish. Poor. Diabetes Mellitus	8 months. Diabetic. Good.	Nov. 24, 1893. Cocaine. Anterior chamber so shallow that counter puncture was made farther back than intended, the knife emerging about 1 mm. from edge of limbus. Pupil pointed that way after eserine had been applied several times. Patient drowsy and delirious on second day. On fourth day bandage omitted. Wound healed, eye quiet. Much sugar found in urine. Patient failed rapidly and died of diabetic coma on fifth day. 5 days.	Died.
10	Male. 80 Irish. Good.	1½ years. Senile. Morgagnian. Good.	Dec. 5, 1893. Cocaine. Patient kept pulling off bandage. Bandage omitted on fifth day. Muco-purulent conjunctivitis, followed by keratitis. Slow recovery. 35 days.	V. = 0.1.
11	Male. 71 Amer. Good.	20 years. Senile. Good.	Jan. 13, 1894. Cocaine. Cornea collapsed after operation. Bandage omitted on sixth day. Some capsule present. Jan. 24, attempt at secondary. Wound opened when needle was pressed against cornea. Bandage for three days. Feb. 3, secondary operation. Clear opening through capsule. 28 days.	V. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
12	Male. 71 German. Good.	3 years. Senile. Good.	Jan. 20, 1894. Cocaine. Much soft cortical, some of which got under iris and could not be removed. Bandage omitted on third day. Some capsule. Secondary, Feb. 3, 1894. 19 days.	V. = 0.8.
13	Female. 80 Amer. Good.	5 years. Senile. Good.	March 12, 1894. Cocaine. Patient caused prolapse of iris by squeezing lids. Prolapse reduced. Eserine. Bandage changed on fourth day and iris found prolapsed. Bandage omitted on eighth day. Eye quiet. Pupil drawn up by prolapse. 24 days.	V. = 0.2.
14	Male. 65 Welsh. Good.	1 year. Senile. Good.	March 27, 1894. Cocaine. On pricking capsule anterior chamber filled with fluid cortical. Some cortical left in pupil. Bandage omitted on third day. Good pupil, some cortical. 10 days.	V. = 0.9.
15	Male. 50 Irish. Good.	4 years. Senile. Good.	April 4, 1894. Cocaine. Considerable vitreous lost in attempt to remove soft cortical. Vitreous cut off close to wound. Bandage omitted on seventh day. Deep anterior chamber. Pupil displaced a trifle upwards. 20 days.	V. = 0.9.
16	Female. 56 Irish. Good.	1¼ years. Senile. Good.	April 5, 1894. Cocaine. Small amount of vitreous lost. No anterior chamber on fourth day. Good anterior chamber on seventh day. Bandage omitted on eighth day. Dense membrane fills pupil. April 23, 1894, secondary operation. Vision very low. May 17, capsule again divided widely. Ophthalmoscope shows deep, glaucomatous cupping. 55 days.	V. = 0 1.
17	Male. 54 Swiss. Good.	3 years. Senile. Good.	April 12, 1894. Cocaine. Recovery normal. Bandage omitted on fifth day. 15 days.	V. = 1.00.
18	Male. 56 Amer. Good.	1½ years. Senile. Good.	April 26, 1894. Cocaine. Bandage omitted on fifth day. Some capsule in pupil. Secondary on May 7, 1894. 20 days.	V. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
19	Male. 52 Irish. Good.	1 year. Senile. Good.	May 3, 1894. Ether. Patient behaved so badly that ether was given. Scarcely any anterior chamber on fourth day. Bandage omitted on seventh day. Good anterior chamber. Some capsule. 17 days.	V. = 0.2.
20	Male. 57 Italian. Good.	5 years. Senile. Good.	May 3, 1894. Cocaine. Recovery normal. Bandage omitted on sixth day. Some capsule. 15 days.	V. = apparently fair. Could not communicate with patient.
21	Male. 65 Irish. Good.	1½ years. Senile. Good.	May 7, 1894. Cocaine. Bandage omitted on fifth day. Some capsule present. Secondary on May 24. Next day eye injected; pupil does not dilate well and is irregular. Quiet one week later. 29 days.	V. = 0.5.
22	Male. 78 Amer. Good.	5 years. Senile. Good.	May 17, 1894. Cocaine. Lens refused to present and some cortical came first. When nucleus came considerable vitreous came with it. Another gush of vitreous followed when patient squeezed lids. Vitreous cut off close to wound. Pupil in good position. Bandage omitted on fifth day. Patient had pulled at bandage and a small anterior synechia was found. Eye slowly quieted down. 31 days.	V. = 0.3.
23	Female. 80 Irish. Poor.	3 years. Senile. Good.	May 17, 1894. Cocaine. Bandage omitted on fifth day. Some capsule. May 24, Smart conjunctivitis and dermatitis. Quiet in ten days. 27 days.	V. = 0.4.
24	Female. 55 Irish. Fair.	4 years. Senile. Good.	May 18, 1894. Cocaine. Recovery normal. Bandage omitted on fourth day. Some capsule. 18 days.	V. = 0.4.
25	Male. 63 Irish. Good.	3 years. Senile. Good.	May 18, 1894. Cocaine. Bandage omitted on fourth day. Some capsule. Secondary, May 28. Slight anterior synechia and injection on June 4. Patient anxious to go. 18 days.	V. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
26	Male. 75 Irish. Good.	2½ years. Senile. Good.	May 21, 1894. Cocaine. Recovery normal. Bandage omitted on fourth day. Some capsule. 15 days.	V. = 0.3.
27	Male. 77 Amer. Fair.	7 years. Senile. Good.	July 19, 1894. Cocaine. Cornea collapsed and some fluid vitreous escaped. On third day prolapse of iris found. Aug. 2, prolapse excised. Aug. 9, prolapse nearly flat. Discharged with bandage. 22 days.	V. = 0.4.

EXTRACTIONS WITH BUTTON-HOLE OF THE IRIS.

1	Male. 60 Amer. Good.	2 years. Senile. Good.	Sept. 15, 1893. Cocaine. Considerable soft cortical, some of which was left, as patient kept moving eye. Bandage omitted on eighth day. Some capsule. 15 days.	V. = 0.5.
2	Female. 47 Irish. Good.	2½ years. Senile. Good.	Sept. 15, 1893. Cocaine. Patient very unruly during operation. Bandage omitted on ninth day. Some capsule. 15 days.	V. = 0.1.
3	Female. 74 Scotch. Good.	2 years. Senile. Good.	Sept. 18, 1893. Cocaine. Recovery normal. Bandage omitted on seventh day. Good pupil. 12 days.	V. = 0.4.
4	Male. 78 Amer. Good.	7 years. Senile. Good.	Sept. 27, 1893. Cocaine. On eighth day capsulitis and iritis. Pupil does not dilate with atropine. Hyoscine used, and pupil gradually pulled open during next two weeks. Dense membrane in pupil. Patient discharged against advice before secondary. Secondary, Nov. 18, 1893. 28 days.	V. = 0.1.
5	Female. 49 Irish. Good.	2 years. Senile. Good.	Sept. 30, 1893. Cocaine. Fifth day, blood in anterior chamber, which is not reformed. Blood absorbed five days later. Anterior chamber reformed on nineteenth day, but rather shallow. Omit bandage. 20 days.	V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
6	Female. 56 Nova Scotian. Good.	2 years. Senile. Good.	Oct. 11, 1893. Cocaine. Recovery normal. Bandage omitted on eighth day. Eye quiet. Good pupil. 13 days	V. = 0.4.
7	Male. 42 Austrian Good.	3 years. Senile. Good.	Oct. 11, 1893. Cocaine. Bandage omitted on eighth day. Some cortical in pupil. Two days later, wound found open, with prolapse of iris which could not be replaced. Iridectomy. Bandage. Wound firmly closed ten days later. Some capsule. 30 days.	V. = 1.00.
8	Male. 53 Amer. Good.	4 years. Senile. Good.	Nov. 1, 1893. Cocaine. Wound not healed on eighth day. Healed on thirteenth day. Bandage omitted. 18 days.	V. = 0.4.
9	Female. 26 Amer. Good.	2½ years. No history of trauma. Good.	Nov. 1, 1893. Cocaine. Lens soft. Recovery normal. Omit bandage on ninth day. Good pupil. 15 days.	V. = 0.3.
10	Male. 69 English. Fair.	3 years. Senile. Good.	Nov. 6, 1893. Cocaine. Recovery normal. Omit bandage on eighth day. 9 days.	V. = 0.8.
11	Male. 69 Irish. Fair.	3 years. Senile. Good.	Nov. 8, 1893. Cocaine. Patient had slight cerebral hemorrhage on fourth day. Some paresis. Mind sluggish. Omit bandage on ninth day. Patient mentally all right. Iris tied down by adhesions. Eye injected. Anterior chamber deep. Dec. 27, 1893, secondary operation. Jan. 5, 1894, same condition as before operation. Jan. 25, 1894, iridotomy. Some vitreous lost. Bandage. Jan. 30, bandage omitted. Anterior chamber less deep. 93 days.	V. = 0.3.
12	Female. 57 Amer. Good.	5 years. Senile. Good.	Nov. 18, 1893. Cocaine. Recovery normal. Bandage omitted on eighth day. Pupil dilated. Several iritic adhesions. 11 days.	V. = 0.6.
13	Female. 63 Negro. Good.	2 years. Senile. Good.	Jan. 5, 1894. Cocaine. Normal. Monocular bandage on fifth day. Omitted on tenth day. Some capsule. Secondary, Jan. 23, 1894. 26 days.	V. = 1.00.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
14	Female. 35 Irish. Good.	1½ years. Senile. Good. Leucomata.	Jan. 19, 1894. Cocaine. Globe soft. Cornea collapsed after operation. Considerable hemorrhage. Monocular bandage on seventh day. Omit on fifteenth day. Secondary on Jan. 30. 22 days.	V. = 0.4.
15	Male. 68 Irish. Good.	2 years. Senile. Good.	March 10, 1894. Cocaine. Bandage omitted on eighth day. Some injection. 13 days.	V. = 0.5.
16	Male. 57 Amer. Good.	3 years. Senile. Good.	March 17, 1894. Cocaine. Omit bandage on eighth day. Considerable cortical which slowly absorbed, leaving capsule. Secondary on April 11, 1894. 14 days.	V. = 0.2.
17	Female. 64 Amer. Fair.	2 years. Senile. Good.	March 24, 1894. Cocaine. Recovery normal. Omit bandage on eighth day. Dense capsule in pupil, with small central hole. 19 days.	V. = 0.2.
18	Male. 82 Amer. Good.	3 years. Senile. Good.	March 28, 1894. Cocaine. Bandage omitted on seventh day. Pupil small. Anterior chamber deep. Pterygium inflamed. Patient ready to go in eighteen days, but waited to have operation on pterygium. 29 days.	V. = 0.5.
19	Female. 50 Nova Scotian. Good.	15 years. Senile. Good.	March 21, 1894. Cocaine. Normal. Omit bandage on eighth day. Some capsule. Conjunctivitis. 24 days.	V. = 0.5.
20	Male. 71 Amer. Fair.	6 years. Senile. Good. Morgagnian.	April 7, 1894. Cocaine. Milky fluid filled anterior chamber when capsule was pricked. Omit bandage on eighth day. Some opaque capsule. April 20, slight iritis. Eye white April 28. 22 days.	V. = 0.3.
21	Male. 57 Irish. Good.	1½ years. Senile. Good.	April 7, 1894. Cocaine. Normal. Omit bandage on eighth day. 19 days.	V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing process. Duration of Treatment.	Vision.
22	Female. 47 English. Good.	2½ years. Senile. Good.	April 7, 1894. Cocaine. Normal. Omit bandage on eighth day. 25 days.	V. = 0.7.
23	Female. 80 Amer. Feeble.	2 years. Senile. Good.	April 11, 1894. Cocaine. Cornea collapsed after operation. Normal recovery. Omit bandage on eighth day. Some capsule. 18 days.	V. = 0.2.
24	Male. 81 Irish. Good.	6 years. Senile. Good.	April 28, 1894. Cocaine. Normal. Omit bandage on eighth day. 15 days.	V. = 0.4.
25	Female. 71 Scotch. Good.	3 years. Senile. Good.	May 1, 1894. Cocaine. Normal. Omit bandage on eighth day. Slight capsule. 15 days.	V. = 0.6.
26	Male. 73 Scotch. Good.	2 years. Senile. Good.	Aug. 2, 1894. Cocaine. Omit bandage on sixth day. 15 days.	V. = 0.3.
27	Female. 59 Amer. Good.	5 years. Senile. Good.	Aug. 18, 1894. Cocaine. Omit bandage on ninth day. Tag of iris in wound. Some capsule. 16 days.	V. = 0.3.

AURAL DEPARTMENT.

To the Board of Managers of the Massachusetts Charitable Eye and Ear Infirmary.

Gentlemen, — The Board of Aural Surgeons presents herewith the statistical report of its department for the past year. Reference to the figures given shows an increase in the number of patients, and a considerable increase in the number of important operations performed upon the ear.

The thanks of the Board are due to the Assistant Surgeons, Clinical Assistants, and Interne, whose efficiency continues to give satisfaction.

CLARENCE J. BLAKE.
J. ORNE GREEN.
EDMUND D. SPEAR.

DISEASES OF OUT PATIENTS, EAR DEPARTMENT.

Oct. 1, 1893, to Oct. 1, 1894.

I. Morbi Auris Externæ.

1. Auriculæ.

a. *Inflammationes.*

	A.D.	A.U.	A.S.
Abscessus auriculæ	0	0	2
" conchæ	3	0	0
" lobulæ	1	0	1
" tragi	1	0	2
Dermatitis congelationis	0	1	0
Eczema pustulosum acutum	10	15	9
" rubrum chronicum	7	10	7
Hæmatoma traumaticum	1	1	0
Herpes zoster	1	1	2
Intertrigo	1	2	1
Perichondritis	0	2	1
Trauma directum	0	0	1

b. *Deformitates.*

Fissura lobulæ	0	0	1

c. *Neoplasmata.*

Angioma	1	0	0
Cornu	1	0	0
Cystis lobulæ	3	0	4
Epithelioma	1	0	1
Fibroma	0	2	1

2. Meatus-Cutis.

a. *Anomaliæ secretionum.*

Accumulatio ceruminis	337	473	343

b. *Inflammationes.*

Abscessus	3	0	5
Eczema	6	19	1
Otitis externa desquamativa	5	2	1

	A.D.	A.U.	A.S.
Otitis externa diffusa acuta	37	27	43
" " " chronica	2	6	3
" " follicularis	46	7	47
Corpus adventitium animale	11	1	8
" " inanimale	15	2	14
Pruritus	0	3	1

c. *Neoplasmata.*

Enchondroma	1	0	0

d. *Deformitates.*

Atresia acquisita	0	2	0
Fistula auris congenita	0	0	1

MEATUS-OSSIS.

Exostosis circumscripta	1	0	1
Hyperostosis universalis	1	0	0

II. MORBI AURIS MEDIÆ.

1. MEMBRANÆ TYMPANI.

Myringitis acuta	1	0	1
Trauma directum	3	0	5
" indirectum	8	0	9

2. TYMPANI, TUBÆ EUSTACHII, ET PORTIONIS MASTOIDEÆ.

a. *Otitis catarrhalis secernens.*

Otitis catarrhalis secernens mucosa acuta	48	55	20
Otitis catarrhalis secernens mucosa acuta cum hyperplasia tonsillæ pharyngeæ	0	8	0
Otitis catarrhalis secernens mucosa chronica	61	267	68
Otitis catarrhalis secernens mucosa chronica cum hyperplasia tonsillæ pharyngeæ	1	30	0
Otitis catarrhalis mucosa chronica	83	231	79
Otitis catarrhalis mucosa chronica cum hyperplasia tonsillæ pharyngeæ	0	20	0
Otitis catarrhalis secernens serosa acuta	18	13	6

b. *Otitis catarrhalis adhæsiva.*

Otitis catarrhalis adhæsiva ex secernente	30	118	32
Otitis catarrhalis adhæsiva ex secernente cum hyperplasia tonsillæ pharyngeæ	0	2	1

	A.D.	A.U.	A.S.
Otitis catarrhalis adhæsiva insidiosa	56	213	64
Otitis catarrhalis adhæsiva insidiosa cum morbo labyrinthi	3	9	3
c. *Otitis media acuta.*			
Otitis media acuta simplex	256	76	233
" " " cum bulla	4	0	7
Otitis media acuta cum hyperplasia tonsillæ pharyngeæ	2	2	1
Otitis media acuta cum ostitide mastoideæ	9	0	9
d. *Otitis media suppurativa.*			
Otitis media suppurativa acuta	80	19	61
" " " " cum ostitide mastoideæ	6	1	5
" " " chronica	301	140	275
" " " " cum atresia meatus	0	0	2
Otitis media suppurativa chronica cum carie mastoideæ	19	1	9
Otitis media suppurativa chronica cum carie mastoideæ et abscessu cervicis	1	0	1
Otitis media suppurativa chronica cum carie meatus .	4	0	1
Otitis media suppurativa chronica cum carie ossiculorum	7	3	5
Otitis media suppurativa chronica cum granulatione meatus	1	0	1
Otitis media suppurativa chronica cum granulatione tympani	29	7	27
Otitis media suppurativa chronica cum hyperplasia tonsillæ pharyngeæ	2	4	1
Otitis media suppurativa chronica cum ostitide mastoidea	2	0	3
Otitis media suppurativa chronica cum polypo tympani	28	4	42
Effectus otitidis mediæ suppurativæ	154	148	140
Effectus otitidis mediæ suppurativæ cum hyperplasia tonsillæ pharyngeæ	0	3	0
Surditas senilis	1	4	0
3. Neuroses Auris Mediæ.			
Otalgia dentalis	29	7	31
" hysterica	0	0	1
" laryngealis	0	0	2
" nasalis	3	1	4
" neuralgica	12	6	14
" pharyngealis	1	1	0

III. Morbi Labyrinthi et Acustici.

	A.D.	A.U.	A.S.
Anæmia labyrinthi	0	1	0
Concussio ex ictu aërio	5	2	1
Hæmorrhagia	1	0	0
Labyrinthitis acuta	0	0	2
Morbus acustici	1	4	0
Hyperæsthesia acustici	1	3	1
Panotitis	3	2	0
Propriæ notæ Ménière	2	2	3

Miscellaneous.

Eloped	6
No diagnosis	43
No ear disease	67
Unfit patients	146

Morbi et Operationes.

Auricula, abscessus, incisio	0	0	1
" angioma, remotio	0	0	1
" polyotia, "	1	0	0
Cervix, abscessus, incisio	0	0	2
Concha, " "	2	0	1
Lobula, " "	1	0	2
" cystis, remotio	3	0	0
" fibroma, "	0	2	0
" fissura	0	0	1
Meatus, abscessus, incisio	8	1	10
" caries, remotio	1	0	3
" chondroma, remotio	1	0	0
" granulatio, "	3	0	2
" otitis externa diffusa	1	0	1
" " " follicularis	14	0	19
" polypus, remotio	2	0	2
Membrana tympani, bulla, incisio	1	0	0
" " paracentesis	139	2	119
Mastoidea, ostitis, apertio	6	0	0
" necrosis, remotio	36	1	28
" " cum thrombose venæ jugulæ	1	0	0
Nasus, papilloma, remotio	1	0	0
" polypus, "	13	1	17
" septum, exostosis, remotio	16	0	9
Nasus et pharynx, hyperplasia tonsillæ pharyngeæ, remotio	124		

	A.D.	A.U.	A.S.
Ossicula, ankylosis, remotio	0	0	2
" " mobilizatio	4	0	6
" necrosis, remotio	36	2	23
Stapedectomia	0	0	1
Supra auriculam, abscessus, incisio	0	0	1
Synæctomia	2	0	4
Tonsilla, remotio	0	5	0
Tragus, abscessus, incisio	3	0	3
Tympanum, granulatio, remotio	2	0	2
" necrosis, "	3	0	0
" polypus, "	34	2	65
Summa	799		

DISEASES OF HOUSE PATIENTS, EAR DEPARTMENT.

Oct. 1, 1893, to Oct. 1, 1894.

I. Morbi Auris Externæ.

a. *Auriculæ.*

	A.D.	A.U.	A.S.
Abscessus conchæ	0	0	1
" lobulæ	1	0	0
Angioma tragus	0	0	1
Fibroma lobulæ	0	2	0
Microtia	0	0	1
Polyotia	1	0	0

b. *Meatus.*

Corpus adventitium inanimale	1	0	1
Enchrondroma	1	0	0
Hyperostosis circumscripta	0	0	1
Otitis externa desquamativa	0	0	1
" " diffusa	3	0	1
" " follicularis	0	1	0

II. Morbi Auris Mediæ.

Otitis catarrhalis secernens mucosa acuta	1	1	0
" " " " chronica	0	0	1
" " adhæsiva ex secernente	0	4	1
Otitis catarrhalis adhæsiva ex secernente cum hyperplasia tonsillæ pharyngeæ	0	1	0
Otitis catarrhalis adhæsiva insidiosa	0	3	0
Otitis catarrhalis adhæsiva insidiosa cum morbo labyrinthi	0	1	0
Otitis catarrhalis mucosa chronica	3	6	1
Otitis catarrhalis mucosa chronica cum morbo labyrinthi	0	1	0
Otitis media acuta simplex	10	0	3
" " " cum ostitide mastoideæ	13	1	8

	A.D.	A.U.	A.S.
Otitis media suppurativa acuta	1	2	2
" " " " cum ostitide mastoidea	10	0	12
" " " " " carie mastoidea	6	0	7
Otitis media suppurativa acuta cum carie mastoidea et abscessu cervicis	0	0	2
Otitis media suppurativa acuta cum carie mastoidea et meningitide	1	0	1
Otitis media suppurativa chronica	7	4	3
" " " " cum abscessu conchæ	1	0	0
Otitis media suppurativa chronica cum abscessu supra auriculam	1	0	0
Otitis media suppurativa chronica cum carie mastoidea	25	3	18
Otitis media suppurativa chronica cum carie mastoideæ et thrombose venæ jugulæ	1	0	1
Otitis media suppurativa chronica cum carie meatus	4	0	1
Otitis media suppurativa chronica cum carie ossiculorum	26	10	17
Otitis media suppurativa chronica cum carie ossiculorum et granulatione tympani	1	0	6
Otitis media suppurativa chronica cum carie tympani	4	0	1
Otitis media suppurativa chronica cum hyperplasia tonsillæ pharyngeæ	0	1	0
Otitis media suppurativa chronica cum ostitide mastoidea	3	0	3
Otitis media suppurativa chronica cum polypo tympani	1	0	6
Effectus otitidis mediæ suppurativæ	4	7	5
" " " " cum hyperplasia tonsillæ pharyngeæ	1	2	0

Neuroses Auris Mediæ.

Otalgia hysterica	1	0	0

Morbi Labyrinthi et Acustici.

Labyrinthitis	0	0	1
Morbus acustici	0	2	0

Number of House Patients.

Male	146
Female	131
Total	277

EAR PATIENTS.

Statistics — Oct. 1, 1893, to Oct. 1, 1894.

Males.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Total.
Birth to 3 years,	7	3	5	6	7	16	14	7	10	5	8	3	91
3 years to 15 years	24	34	24	39	31	30	58	37	36	45	60	22	440
15 " " 25 "	42	31	37	59	48	61	59	49	46	75	63	57	627
25 " " 35 "	38	42	32	46	41	64	57	69	67	68	60	56	639
35 " " 45 "	37	29	23	28	29	40	25	47	27	50	36	30	401
45 " " 55 "	21	13	17	23	27	32	27	20	29	35	25	21	290
55 " " 65 "	15	9	7	17	11	18	23	19	17	22	17	10	185
65 " " 75 "	11	4	3	9	8	10	13	8	9	11	11	5	102
75 " " 85 "	0	0	1	1	3	1	1	1	5	4	1	1	19
85 " " 95 "	0	0	0	0	0	0	0	1	0	0	0	0	1
													2,795

Females.

Birth to 3 years,	8	9	2	13	10	15	14	12	10	8	6	8	115
3 years to 15 years	35	38	25	39	35	49	50	35	55	35	38	37	471
15 " " 25 "	54	25	26	51	46	55	48	52	48	45	58	41	549
25 " " 35 "	40	35	22	43	33	60	37	44	52	47	58	43	514
35 " " 45 "	24	25	14	26	16	28	25	30	19	34	34	18	293
45 " " 55 "	20	13	10	11	15	19	25	21	23	24	9	14	204
55 " " 65 "	11	4	6	3	11	11	10	11	11	12	10	11	111
65 " " 75 "	5	3	2	3	2	10	4	3	9	4	5	3	53
75 " " 85 "	0	0	0	0	0	0	0	2	0	1	1	0	4
													2,314

Residences.

Boston,	158	154	123	228	188	264	232	217	226	278	234	198	2,500
Massachusetts,	220	152	125	187	182	244	253	241	238	245	255	169	2,511
Maine,	5	4	3	0	0	5	2	1	4	0	6	2	32
New Hampshire,	6	6	4	2	1	3	0	3	3	1	2	6	37
Vermont,	2	0	1	0	0	0	1	1	1	0	2	1	9
Rhode Island,	0	0	0	0	1	1	0	1	0	0	0	0	3
Connecticut,	0	0	0	0	0	0	2	0	1	0	0	0	3
Other States,	0	0	0	0	0	0	0	2	0	1	0	1	4
British Provinces,	1	1	0	0	1	2	0	1	0	0	1	3	10

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Total.
New patients,	392	317	256	417	373	519	490	467	473	525	500	380	5,109
Old patients,	1,841	1,958	1,779	2,126	1,530	2,094	1,896	2,319	2,100	1,963	1,712	1,588	22,906
Total,	2,233	2,275	2,035	2,543	1,903	2,613	2,386	2,786	2,573	2,488	2,212	1,968	28,015

Working days	304	Average number of new patients daily .	10
Number of Sundays	53	" " " old " " .	75
Number of Holidays	8	Total average, daily	95

Occupation of Ear Patients.

Agents	18
Bakers	8
Barbers	23
Blacksmiths	42
Bookkeepers	35
Carpenters	121
Children	387
Clergymen	4
Clerks	249
Cigar makers	29
Cooks	38
Dressmakers	72
Dentists	2
Domestics	354
Drivers	58
Engineers	34
Electricians	12
Farmers	42
Firemen	26
Factory hands	131
Fishermen	14
Hatters	5
Home	835
Hostlers	21
Laborers	582
Leather workers	10
Laundresses	15
Masons	35
Mariners	15
Mechanics	13
Machinists	99
Messengers	17
Metal workers	97
Milliners	14

Mill operatives	80
Musicians	8
Nurses	31
Painters	41
Policemen	8
Porters	13
Printers	37
Plumbers	11
Railroad	46
Rubber workers	36
Seamstresses	80
Shoemakers	74
Students	26
School	706
Stone-cutters	41
Tailors	64
Teachers	22
Teamsters	70
Traders	1
Waiters	53
Wood-workers	62
Other occupations	142

SEVENTIETH

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1895.

BOSTON:
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1896.

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OFFICERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1895-96.

BOARD OF MANAGERS.

J. COLLINS WARREN, M. D., LL.D., *President.*
AUGUSTUS HEMENWAY, *Treasurer*, 10 TREMONT STREET, BOSTON.
F. M. STONE, *Secretary*, 706 SEARS BUILDING, BOSTON.

WILLIAM C. ENDICOTT.
WILLARD P. PHILLIPS.
CHARLES P. CURTIS.
CLEMENT K. FAY.
GEORGE P. GARDNER.
F. L. HIGGINSON.
JOHN HOMANS, 2D, M. D.
CHARLES LOWELL.
PERCIVAL LOWELL.
HENRY PARKMAN.
HENRY R. SHAW.

CONSULTING SURGEONS.

GUSTAVUS HAY, M. D.
HASKET DERBY, M. D.
HENRY L. SHAW, M. D.
SAMUEL J. MIXTER, M. D.

OPHTHALMIC SURGEONS.

B. JOY JEFFRIES, M. D.
HENRY W. BRADFORD, M. D.
H. BECKLES CHANDLER, M. D.
OLIVER F. WADSWORTH, M. D.
MYLES STANDISH, M. D.
FREDERICK E. CHENEY, M. D.

AURAL SURGEONS.

CLARENCE J. BLAKE, M. D.
J. ORNE GREEN, M. D.
EDMUND D. SPEAR, M. D.

ASSISTANT OPHTHALMIC SURGEONS.

WM. DUDLEY HALL, M. D.
EDWIN E. JACK, M. D.
FRANK I. PROCTOR, M. D.
ALEXANDER QUACKENBOSS, M. D.

ASSISTANT AURAL SURGEONS.

FREDERICK L. JACK, M. D.
HENRY L. MORSE, M. D.
WM. S. BRYANT, M. D.

PATHOLOGIST.

WM. DUDLEY HALL, M. D.

Aural Clinical Assistants.

EDWARD M. PLUMMER, M. D.
EUGENE A. CROCKETT, M. D.

Ophthalmic House Officers.

R. C. CARLETON, M. D.
J. F. McCUSKER, M. D.

Aural House Officer.

PHILIP HAMMOND, M. D.

Consulting Neurologist to the Aural Department.

JAMES J. PUTNAM, M. D.

FARRAR COBB, M. D., *Superintendent.*
C. E. M. SOMERVILLE, *Matron and Superintendent of Nurses.*

ANDREW J. LLOYD, *Optician.*

REPORT OF THE MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

1895.

The Managers herewith present their annual report for the year ending Sept. 30, 1895.

In May, 1895, Dr. George Stedman, for many years superintendent of the Infirmary, presented his resignation to the Managers which was accepted, and Dr. Farrar Cobb was chosen in his place. During his long period of duty Dr. Stedman acquired an experience which enabled him to perform many valuable services to the Infirmary. The good work done by the new superintendent has amply justified the selection.

The Managers acknowledge, with thanks, legacies received during the year from the estate of Anne M. Sweetser, a gift of money from E. D. Peters, and a gift from Catherine H. Kettell, in memory of Louisa C. Kettell. Gifts and legacies are always gratefully received, as it will be seen from the statement of receipts and expenditures hereto annexed that there is no list of annual subscribers or donors as in many other charities, but that the receipts of the Infirmary are almost entirely made up from the income of invested funds and the generous annual gift from the Commonwealth of Massachusetts.

The usefulness of the Infirmary since the erection of its present building in 1849 has been a growing one. The following statistics of the number of patients treated will be of interest, and as these figures only represent individuals, the numbers should be multiplied by three or four to show the

actual attendance of persons, old and new, out-patients and house patients, who pass through the various departments in a year.

Year.	Number of Patients.
1849	2,002
1854	2,281
1867	2,580
1872	5,975
1877	9,087
1885	11,689
1890	15,289
1895	19,150

The total inadequacy of the present building properly to accommodate this increasing number was long since manifest, and though some relief was given a few years ago by the addition of a new building for the Aural Department through the generous gift of Miss Helen C. Bradlee, yet the present accommodations are entirely insufficient and in many instances improper.

The present building was built nearly fifty years ago, and, whatever its merits at that time, the progress of hospital construction has demonstrated its inadequacy and unfitness at the present time. There is appended hereto a report of the Board of Surgeons, which presents more in detail the state of the building, and the statements made can be fully corroborated.

The Board of Managers have, therefore, carefully considered what was to be done. Only two courses were really open, as repairing and altering the present building was found to be very expensive and not to produce the results desired.

First, to rebuild in the present location. This idea was finally decided against, as it would suspend the use of the Infirmary during building, and there were some objections to the present location if a better one could be found.

The other alternative, to build a new building on a new site, was decided upon as the best, and, by a fortunate

arrangement, the Managers have been able to obtain the refusal for a few months of a desirable piece of land not far from the present location.

It is supposed that the land now owned can be sold for rather more than enough to pay for the new lot.

The cost of a new building, properly equipped, and with separate wings for out-patients, has been estimated as between one hundred and fifty and two hundred thousand dollars. To erect such a building, the Managers appeal to the public for assistance and they have also presented a petition to the Legislature for aid.

HENRY PARKMAN,
F. M. STONE,
For the Board of Managers.

RECEIPTS AND EXPENDITURES FOR THE YEAR ENDING SEPT. 30, 1895.

RECEIPTS:

Income from investments	$8,750 57	
Income from trustees under will of E. V. Ashton,	1,000 00	
From the Commonwealth of Massachusetts	20,000 00	
Rebate of bank tax	428 87	
Board of patients	2,831 82	
Optician's account	2,360 45	
Medicines	3,760 81	
Sundries (including $300 cash balance from 1894),	466 61	
		$39,599 3

EXPENDITURES:

Gas and water	$1,511 85	
Provisions	10,161 91	
Wages and salaries	13,226 45	
House furnishings and supplies	2,145 38	
Ice	538 23	
Repairs	2,692 40	
Instruments	1,643 09	
Medicines	2,516 97	
Fuel	2,561 66	
Stationery, printing, and sundries	956 73	
Incidentals	639 08	
Pittsfield visits	117 50	
Annuities as per agreement	300 00	
Insurance	150 00	
		$39,161 25
Balance		437 88
		$39,599 13

Deficit from previous years	$1,493 38
Credit balance from this year as above	437 88
Deficit to next year	$1,055 50

Boston, Dec. 11, 1895.

To the President of the Board of Managers of the Massachusetts Charitable Eye and Ear Infirmary.

Dear Sir, — In response to your request for an opinion as to the present condition and needs of the Infirmary, the staff would respectfully state that the buildings to-day fail in many ways to meet the proper requirements of the institution or the conditions that should prevail in a well-arranged hospital. The ventilation and sanitary arrangements of the wards are poor, and it does not seem possible without great and expensive alterations to materially improve them. The isolating rooms are small, badly ventilated, insufficient in number. The arrangement of the closets is such as is condemned by all modern hospital authorities; instead of being isolated and well ventilated, they are ill ventilated and open directly into the wards. More space for house patients is needed.

In the Ophthalmic Department the wards in which the most important operative cases are placed open by means of stairways and air shafts to immediate connection with all the effluvia coming from the large number of out-patients, many of them extremely dirty, who are in daily attendance. The same fact is true of the ophthalmic operating room; moreover, this single operating room must suffice for the most delicate operations in which aseptic conditions are of the utmost importance, and for such operations as are septic to a degree. Under these circumstances it is impossible that infection should not occasionally occur, infection that might be avoided under better arrangements. The out-patient departments should be entirely separated from the wards of the hospital.

The out-patient department is much overcrowded. The number of patients has increased by about a thousand each

year, and this increase is likely to continue. Twelve hundred out-patients a week is now the average attendance. For the proper classification, examination, and treatment of this large number of patients, and to avoid the intimate commingling of infectious and non-infectious cases which now is an unfortunate necessity, very much greater space is needed than is at present available. The only opportunity for ophthalmoscopic examination is furnished by small, curtained enclosures without ventilation, and opening from clinic rooms already ill ventilated and often crowded. It should be said that a very important part of the work to be done consists in the examination of vision and the ordering of proper glasses; upon its accuracy depend the comfort and ability to work of many of all ages. This work has especially increased in recent years and the present space for the performance of the work is entirely inadequate.

The clinical education of students, which is recognized as one of the proper and important functions of such an institution as the Infirmary, also demands increased room.

The Aural Department, although provided not long ago with new quarters, has already outgrown its accommodations, mainly in the out-patient department, which is greatly overcrowded. The same difficulties in preventing sepsis, the same mingling of patients who should be classified, the same lack of room for thorough examination are found in this department also.

One result of these existent conditions is that the enthusiasm and interest of the surgeons are necessarily diminished, and the feeling that the work cannot be properly done tends to its being done even less well than the actual circumstances might admit.

During the last two or three years zealous work has been done in the Pathological Department, but the work has been greatly hampered by lack of space, imperfect arrangement, and necessary waste of time and labor. This department should be a very valuable part of the hospital, as educating

the surgeon and enabling him to do better work both in diagnosis and treatment.

At the request of the Building Committee of the Board of Managers the staff recently presented a plan for a new building on the present site, believing that only by a thorough reconstruction could suitable and efficient changes be made; but continued consideration of this plan only makes more apparent inherent defects in it which seem impossible of remedy, defects which are mainly due to want of space and which would entail for many parts of the building very imperfect light. These faults can only be remedied by a change of location that would give more space for expansion and light on the sides.

The staff desires to recognize that in the last few months many improvements have been made in the sanitary condition and in the nursing at the Infirmary; but these improvements, valuable as they are, are entirely insufficient to make the institution what it should be.

The staff feels it its duty to add that expressions have reached it from time to time from superintendents of other hospitals, from heads of nurses' training schools, and from medical men, which showed that this institution, in matters of construction and sanitary arrangements, was considered to be far behind modern requirements. The staff had for a long time been of the same opinion, and had believed that the Managers to a considerable extent also realized the conditions, but were prevented from change by financial considerations.

Submitted by

Ophthalmic Surgeons.

B. JOY JEFFRIES.
HENRY B. CHANDLER.
HENRY W. BRADFORD.
O. F. WADSWORTH.
MYLES STANDISH.
FREDERICK E. CHENEY.

Aural Surgeons.

CLARENCE J. BLAKE.
J. ORNE GREEN.
EDMUND D. SPEAR.

REPORT OF THE SURGEONS.

The Surgeons of the Infirmary herewith respectfully submit their report for the year ending Sept. 30, 1895.

The whole number of new patients applying for treatment in both departments was 19,140.

They were divided as follows: —

Eye Patients	14,204	
Ear Patients	4,946	
Total		19,150

The average number of out-patients seen daily was 253, divided as follows: —

Eye Patients, new	47	
old	120	
Total		167
Ear Patients, new	15	
old	71	
Total		86

In caring for this large number of patients the Surgeons desire to express their appreciation of the greatly increased facilities, both in the house service and the out-patient department, afforded them by the Board of Managers, through the appointments of the present Superintendent and Superintendent of Nurses.

MYLES STANDISH, M. D.,
CLARENCE J. BLAKE, M. D.,
For the Full Board of Surgeons.

OPHTHALMIC STATISTICS.

Oct. 1, 1894, to Oct. 1, 1895.

OUT-PATIENTS.

New Patients.

1895	1894
14,204	14,260

Average daily attendance for 304 working days, for new patients 47

Total old patients 40,000

House Report.

Sex.

Males	493
Females	289
	782

Residence.

Boston	259
Massachusetts (not Boston)	474
Maine	11
New Hampshire	28
Vermont	3
Rhode Island	3
Other States	2
British Provinces	2
	782

Out-Patients.

Sex.

Males	6,452
Females	7,752
	14,204

Residence.

Boston	7,316
Massachusetts (not Boston)	6,603
Maine	71
New Hampshire	117

Vermont	23
Rhode Island	12
Connecticut	8
Other States	43
British Provinces	8
England	2
Australia	1
	14,204

Occupation of Out-Patients.

Artisans, etc.	828
Artists	11
At home	57
Bakers	37
Barbers	52
Blacksmiths	110
Bookbinders	38
Butchers	32
Carpenters	221
Children	2,706
Clergymen	13
Clerks	652
Coachmen and Hostlers	76
Compositors and Printers	114
Domestics	1,898
Electricians	26
Engineers	54
Farmers	123
Firemen	28
Fishermen	26
Housewives	1,842
Laborers	1,043
Masons	114
Messengers	51
Milliners	33
Mill and Factory	1,071
Musicians	14
Nurses	53

Painters	113
Pedlers	69
Pensioners	25
Photographers	8
Physicians	8
Plumbers	75
Police, etc.	16
Railroad and Street Railroad	131
Sailors	61
Seamstresses	440
Shoemakers	130
Stenographers	45
Stone-cutters	176
Store-keepers	68
Students	204
Tailors	178
Teachers	47
Teamsters	219
Telegraphers	17
Waiters	76
Wood workers	61
Other occupations	584
Unrecorded	130
	14,204

Diseases of Out-Patients.

Lids.

Abscess	48
Angioma	1
Ankyloblepharon	1
Blepharitis	616
Blepharo-phimosis	1
Burns	11
Chalazion	466
Cyst	39
Deformity (congenital)	2
Dermatitis	10
Ecchymosis	23

Ectropion	34
Eczema	39
Entropion	15
Epicanthus	3
Epithelioma	13
Foreign body	94
Herpes zoster	3
Hordeolum	91
Lagophthalmus	3
Lippitudo	4
Milium	4
Molluscum	3
Naevus	2
Œdema	49
Papilloma	3
Pediculi	4
Ptosis	19
Symblepharon	6
Tenia Circinata	1
Trichiasis	41
Tumors	12
Ulcer	6
Verruca	10
Wound	20
Xauthelasma	4
	1,701

Lachrymal Apparatus.

Abscess	51
Catarrh of sac	19
Epiphora and Lachrymal Obstruction	307
Fistula	3
Mucocle	33
	413

Conjunctiva.

Burns	22
Conjunctivitis catarrhal acute	2,231
" " chronic	379

Conjunctivitis diphtheritic	5
" follicular	115
" gonorrhœal	26
" granular	174
" " with pannus	37
" muco-purulent	43
" neonatorum	51
" phlyctenular	410
" traumatic	149
Cuts	9
Cysts	6
Ecchymosis	54
Foreign body	26
Lymphangiectasis	2
Œdema	8
Pinguecula	32
Pterygium	82
Tumor	3
	3,864

Cornea and Sclera.

Abrasion	120
Abscess	12
Burn	20
Cyst dermoid	1
Episcleritis	53
Foreign body, cornea	981
" " sclera	3
Infiltration cornea	21
Keratitis bullous	3
" interstitial	42
" phlyctenular	290
" simple	358
" traumatic	19
" vascular	24
Keratoconus	5
Keratoglobus	1
Kerato-iritis	12

Leucoma	288
" adhærens	3
" inflamed	57
Macular of cornea	53
Nebulæ	158
Rupture of sclera	3
Scleritis	9
Sclero-keratitis	18
Staphyloma of cornea	26
" " sclera	51
Tumor of sclera	1
Ulcer of cornea	477
" with hypopyon	21
" serpiginous	6
" traumatic	48
" vascular	8
Wound of ciliary region	17
" " cornea	40
" " sclera	4
	3,157

Iris and Ciliary Body.

Aniridia	1
Coloboma, iris	2
Ciliary injection	24
Foreign body, iris	2
Irido-cyclitis	4
" -dialysis	3
" -donesis	10
Iritis, rheumatic	189
" specific	25
" traumatic	14
Mydriasis	32
" artificial	31
Occluded pupil	24
Synechia anterior	27
" posterior	21
Tumor of iris (gumma)	1
	410

Lens.

Aphakia	1
Cataract, anterior pyramidal	3
" capsular	6
" congenital	6
" cortical	3
" cretaceous	6
" incipient	127
" lamellar	2
" mature	216
" posterior polar	10
" traumatic	57
Dislocated lens	14
Foreign body in lens	1
Opacities of lens	50
	502

Vitreous.

Cholesterin	2
Hemorrhage	6
Hyalitis	2
Muscæ volitantes	17
Opacities	41
	68

Optic Nerve.

Atrophy	52
Neuritis	30
" retro-bulbar	2
	84

Retina.

Changes in macula	9
Embolism, central artery	1
Hemorrhage	3
Hemorrhage in macula	2
Neuro-retinitis	7
Pigmentary degeneration retina	7
Retinitis	22

Retinitis albuminuric	8
" hemorrhagic	7
Separation of retina	29
Thrombosis retinal vein	1
	96

Choroid.

Albinism	3
Atrophy	15
Coloboma	2
Choroiditis	29
Glaucoma	51
Irido-choroiditis	5
" " sympathetic	1
Retino-choroiditis	3
Rupture of choroid	1
Sclerotico-choroiditis, posterior	11
Staphyloma, posterior	29
	150

Globe and Orbit.

Abscess frontal sinus	1
Anophthalmus	3
Cellulitis	3
Disorganized globe	25
Foreign body, globe	3
Fracture of orbit	1
Hydrophthalmus	2
Irritable orbit	5
Panophthalmitis	5
Periostitis	1
Phthisis bulbi	38
Rupture globe	11
Tumor antrum	1
" frontal sinus	1
" globe	3
" orbit	5
	114

General Injuries.

Blows and cuts	153
Burns	49
	202

Accommodation and Refraction.

Asthenopia	74
Astigmatism	1,165
" irregular	35
Hypermetropia	1,672
Myopia	418
Paralysis of accommodation	8
Presbyopia	457
	3,829

Affections of the Percipient Apparatus.

Amblyopia	40
" (alcohol, tobacco, etc.)	34
Hemianopsia	4
	78

Muscular Affections and Neuroses.

Blepharospasm	11
Ciliary neuralgia	1
Diplopia	9
Neurasthenia	2
Nictitation	5
Nystagmus	42
Paralysis of facial nerve	8
" " sixth	21
" " third	17
" " inferior rectus muscle	2
" " superior " "	1
" " " and external rectus	1

Photophobia	6
Strabismus, alternating	26
" convergent	243
" divergent	48
" transient	17
Supra-orbital neuralgia	14
	474

Miscellaneous.

Eloped	92
Entered by mistake	7
No disease	26
Referred to Ear Department	19
" " other institutions	30
Unfit	254
Unrecorded	404
	832

Summary of Diseases.

Lids	1,701
Lachrymal Apparatus	413
Conjunctiva	3,864
Cornea and Sclera	3,157
Iris and Ciliary Body	410
Lens	502
Vitreous	68
Optic Nerve	84
Retina	96
Choroid	150
Globe and Orbit	114
General Injuries	202
Accommodation and Refraction	3,829
Affections of the Percipient Apparatus	78
Muscular Affections and Neuroses	474
Miscellaneous	832
	15,974

Diseases of House Patients.

Abscess, cornea	6
" frontal sinus	2
" lachrymal sac	3
" orbit	1
Astigmatism	2
Blepharitis	3
Burn, cornea	1
" general	6
Cataract, congenital	10
" posterior polar	2
" secondary	20
" senile	180
" traumatic	33
Cellulitis, orbit	3
Conjunctivitis, catarrhal	7
" diphtheritic	4
" granular with pannus	30
" muco-purulent	2
Dislocated lens	1
Disorganized globe	19
Ectropion	1
Embolism central artery retina	1
Entropion	3
Episcleritis	4
Epithelioma, lid	7
Foreign body, cornea	2
" " globe	2
" " lens	1
Glaucoma, acute	4
" chronic	7
" secondary	1
Glioma	2
Gonorrhœal ophthalmia, adults	14

Gonorrhœal ophthalmia, children and infants	14
Hemianopsia	1
Irido-cyclitis	8
" " sympathetic	6
Iritis, rheumatic	9
" specific	6
" traumatic	1
Keratitis	33
" interstitial	14
" phlyctenular	30
" vascular	3
Kerato-iritis	2
Lachrymal obstruction	2
Leucoma	10
Neuritis	1
" retro-bulbar	1
Occluded pupil	7
Œdema of lids	1
Optic atrophy	1
Panophthalmitis	5
Papillitis	1
Phthisis bulbi	15
Pterygium	5
Ptosis	2
Retinitis	1
" pigmented	1
Rupture of globe	8
Sarcoma, lachrymal gland	1
" orbit	1
Scleritis	3
Separation of retina	7
Staphyloma, anterior	10
Strabismus, alternating	1
" convergent	15
" divergent	2
Symblepharon	4

Tumor, orbit	3
Ulcer, cornea	51
" with hypopyon	20
" serpens	2
" traumatic	8
Wound, ciliary region	40
" cornea	20
" lid	3
" sclera	2
Miscellaneous	8
Entered by mistake	2
Unrecorded	1
	782

Operations.

Lids.

Abscess	1
Canthoplasty	2
Chalazion	63
Cyst of brow and lid	9
Entropion and trichiasis, Green's operation	4
" " " other operations	1
Epithelioma, excised	4
Other tumors "	4
Plastic operations	2
Ptosis, Pagenstecher's operation	3
Skin graft, Wolf	1
	94

Conjunctiva.

Ptrygium operation	30
Symblepharon	5
	35

Cornea.

Foreign body removed	981
Paracentesis for glaucoma	1

Paracentesis for hypopyon	4
" " kerato-conus	4
Peritomy	1
Saemisch's operation for hypopyon	16
Tatooing	1
	1,008

Iris.

Iridectomy, artificial pupil	13
" glaucoma	8
" occluded pupil	3
" prolapsed iris	9
" preliminary to cataract extraction	2
	35

Lens.

Capsule operations	48
Cataract extractions, modified Graefe	97
" " simple	39
" " " with buttonhole of iris	31
" " suction	4
Discissions	38
Dislocated lens removed	1
Foreign body "	1
	259

Enucleations.

For disorganized globe	33
" foreign body in globe	5
" glaucoma	1
" panophthalmitis	4
" phthisis bulbi	9
" sympathetic inflammation	5
" " " threatened	25
" tumor of globe	1
" " " orbit	1
	84

Muscles.

Advancement, external rectus	4
" internal "	1
Tenotomies, external rectus	6
" internal "	46
	57

Miscellaneous.

Abscess frontal sinus incised	1
" lachrymal duct incised	3
Foreign body, anterior chamber, magnet	4
Evisceration	4
New growth, orbit	2
Other operations	13
	27

Total operations	1,599

REPORT OF ONE HUNDRED AND EIGHTY-NINE

Cataract Extractions.

PERFORMED AT THE INFIRMARY BY THE OPHTHALMIC STAFF DURING THE YEAR ENDING AUG. 30, 1895.

COMPILED BY MYLES STANDISH, M. D.

There have been one hundred and eighty-nine cases of cataract operated on at the Infirmary during the past year; of these cases one hundred and fifty-eight were mature senile cataracts and thirty-one traumatic, congenital, and other cataracts not senile.

On the cases of mature senile cataract the modified von Graefe operation was performed ninety times, there were forty-four simple extractions, and twenty-four simple extractions with a buttonhole in the iris. The results as to vision were as follows: —

FOR GRAEFE EXTRACTIONS.

Vision = 1	3	Vision = 0.3	16
" = 0.9	0	" = 0.2	16
" = 0.8	2	" = 0.1	14
" = 0.7	7	" = quantitative	5
" = 0.6	6	" = perception of light	3
" = 0.5	4	" = 0	1
" = 0.4	13	Died	1
		Vision not taken	3
		Total	90

SIMPLE EXTRACTIONS.

Vision = 1	0	Vision = 0.3	3
" = 0.9	2	" = 0.2	8
" = 0.8	2	" = 0.1	6
" = 0.7	4	" = quantitative	3
" = 0.6	1	" = perception of light	2
" = 0.5	1	" = 0	1
" = 0.4	11	Total	44

SIMPLE EXTRACTIONS WITH BUTTONHOLE IN IRIS.

Vision = 1	0	Vision = 0.3	2
" = 0.9	0	" = 0.2	6
" = 0.8	0	" = 0.1	1
" = 0.7	3	" = quantitative	1
" = 0 6	1	" = perception of light	0
" = 0.5	5	" = 0	1
" = 0.4	4		
		Total	24

TRAUMATIC AND OTHER CATARACTS NOT SENILE.

Vision = 1	2	Vision = 0.3	0
" = 0.9	0	" = 0.2	3
" = 0.8	1	" = 0.1	6
" = 0.7	0	" = quantitative	7
" = 0.6	2	" = perception of light	1
" = 0.5	2	" = 0	0
" = 0.7	0	" = not taken	7
		Total	31

In the forty-four cases of simple extraction there were four cases of prolapse of the iris after the operation. In the twenty-four cases of simple extraction with buttonhole of iris, there were no cases of prolapse of the iris. It is to be noted that the records of vision are those taken when the patient was discharged from the Infirmary. The number of days after the operation when the discharge took place is given in the tables in each case.

MATURE SENILE CATARACTS.

Modified Graefe Extractions.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	Male. 73 Amer. Good.	4 years. Mature senile. Fair.	Sept. 5, 1894. Cocaine. Modified Graefe. Patient refractory, removing bandage. Sept. 7, monocular bandage. Sept. 12, bandage changed daily, as patient never left it in place. Sept. 29, patient anxious to go. Eye slightly red. Discharged. 25 days.	V. = 0.3.
2	Female. 72 Sweden. Good.	3 years. Senile. Fairly good.	Sept. 7, 1894. Cocaine. Modified Graefe. Lens was large. Unable to use fixation forceps; subconjunctival hemorrhage. Bandage omitted on eighth day. 22 days.	V. = 0.2.
3	Female. 52 Canada. Good.	4 years. Senile. Good.	Sept. 7, 1894. Cocaine. Modified Graefe. Operation without incident. Bandage removed on ninth day. 25 days.	V. = 0.2.
4	Male. 46 Amer. Good.	5 years. Lens not wholly opaque. Senile, mature. Good.	Sept. 11, 1894. Cocaine. Modified Graefe. Recovery normal. Pupil large and round and clear. 21 days.	V. = 0.7.
5	Male. 77 Amer. Good.	2 years. Senile. Normal.	Sept. 26, 1894. Cocaine. Modified Graefe. Great collapse of cornea after incision. Small nucleus. Much soft cortical. Some could not be removed. Recovery uneventful. Bandage removed sixth day. Pupil large and nearly round. 13 days.	V. = 0.3.
6	Female. 62 Irish. Good.	2 years. Senile. Normal.	Sept. 27, 1894. Cocaine. Modified Graefe. Without incident. 16 days.	V. = 0.2.
7	Female. 72 Amer. Good.	4 years. Senile. Normal.	Oct. 3, 1894. Cocaine. Modified Graefe. Normal operation. 27 days.	V. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
8	Female. 65 Irish. Good.	8 years. Senile. Normal. Leucomata o.u. Sl. converg. o. s.	Oct. 6, 1894. Cocaine. Modified Graefe. After cut was made, patient's eye was not quiet one moment. On this account lens could not be tilted. Iridectomy done and lens delivered with scoop, without loss of vitreous. Atropine instilled daily. Bandage removed on seventh day. Eye fairly quiet; cortical in pupil. Oct. 24, discharged at own request. 19 days.	Fingers.
9	Female. 66 Amer. Good.	2 years. Senile. Normal.	Oct. 16, 1894. Cocaine. Modified Graefe. Normal operation. Considerable cortical; some left in pupil. Nov. 1, eye quiet and white. Some cortical absorbed but capsule interferes with vision. Dec. 8, secondary operation. Capsule divided with needle. Bandage omitted next day. 67 days.	V. = 1.00—.
10	Male. 77 Amer. Good.	10 years. Senile. Normal.	Oct. 20, 1894. Cocaine. Modified Graefe. Lens slow in engaging on account of iritic adhesions. Patient had apoplectiform attack, and blood was found in anterior chamber. Dec. 5, discharged against advice. 47 days.	V. = 0.1—.
11	Male. 59 Irish. Good.	1½ years. Senile. Normal.	Oct. 24, 1894. Cocaine. Modified Graefe. Normal operation. Considerable soft cortical. Washed with formaldehyde. Bandage omitted eighth day. Nov. 8, smart conjunc. and iritis. Nov. 30, eyes quiet. Dense capsule. Operation later advised. 39 days.	V. = fingers at 1 foot.
12	Male. 75 Irish. Feeble.	7 years. Senile. Normal.	Oct. 26, 1894. Cocaine. Modified Graefe. Normal operation and recovery. F. A 1–2000, Coll. V. 16 days.	V. = 0.3—.
13	Female. — Amer. Good.	4 years. Senile. Preliminary iridectomy. July 17, '94. Normal.	Oct. 26, 1894. Cocaine. Modified Graefe. Washed with formaldehyde. Oct. 27, bandage removed and anterior chamber found half full of pus. Panophthalmitis and phthisis bulbi followed. 43 days.	V. = light perception.
14	Female. 60 Irish. Fair.	2 years. Senile. o. s. lost former cataract operation.	Nov. 2, 1894. Cocaine. Modified Graefe. Normal operation and recovery. 21 days.	V. = 0.3—. Illiterate.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
15	Female. 70 Nova Scotian. Good.	6 years. Senile. Normal.	Nov. 13, 1894. Cocaine. Modified Graefe. Recovery perfectly normal. 21 days.	V. = 0.5—.
16	Female. 70 Irish. Fair.	5 years. Senile. Normal.	Nov. 17, 1894. Cocaine. Modified Graefe. Black fluid escaped after cut; wound enlarged c scissors. Capsule tough. Patient unruly. 27 days.	V. = 0.4—.
17	Female. 32 Amer. Poor. Neurot'c	Senile. Iridodonesis. T= — 1. 4 years.	Nov. 23, 1894. Cocaine. Modified Graefe. Much fluid vitreous escaped when cut was made. Lens removed c scoop. Bandage omitted ninth day. 26 days.	V. = 0.1.
18	Female. 72 Amer. Good. Chr. bronchitis.	Senile. 1½ years. Normal.	Nov. 27, 1894. Cocaine. Modified Graefe. Operation and recovery normal. Bandage omitted sixth day. 18 days.	V. = 0.4.
19	Male. 75 Amer. Feeble.	Senile. 1½ years. Normal.	Nov. 30, 1894. Cocaine. Modified Graefe. Forceps did not hold, and when knife was slightly withdrawn to disengage from fold of conjunctiva (caught by knife after counter puncture) the globe turned, and knife came out entirely; not much aqueous lost. More lost in trying to re-enter original wound. Iris slightly pricked. Top of cut three mm. from edge of cornea. Cornea collapsed and iris showed no tendency to replace itself. Iridectomy done. Recovery entirely normal. 18 days.	V. = 1.00.
20	Female. 60 Irish. Good.	Senile. 3 years. Normal.	Dec. 5, 1894. Modified Graefe. Extraction with keyhole iridectomy. The eye proved to be very soft. Lens large, with no cortical, but capsule was quite opaque, and could not be removed from pupil without more manipulation than seemed justifiable in so soft an eye. Eye healed well and promptly, and bandage removed Dec. 11. Dec. 12, well marked serous iritis, with hypopyon in anterior chamber. Dec. 16, eye better, patient restless and feverish. Urine full of pus. Patient grew weaker in spite of stimulating treatment, and died Dec. 20. 16 days.	Died.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
21	Male. 55 P. E. I. Good.	Senile. 2 years. Normal.	Dec. 12, 1894. Cocaine. Modified Graefe. Much soft cortical. Bandage changed daily and omitted on fifth day. 23 days.	V. = $\frac{5}{4}$.
22	Female. 66 Good.	Senile. 2 years. Normal.	Dec. 13, 1894. Cocaine. Modified Graefe. Normal operation except for collapse of cornea after extraction of lens. Dec. 19, bandage omitted. Slight prolapse at inner corner of wound. Prolapse excised. Patient squeezed eye, causing corneal wound to open. Monocular bandage. Feb. 21, secondary operation. 38 days.	V. = 0.2.
23	Female. 65 Good.	Senile. 9 months. Normal.	Dec. 13, 1894. Cocaine. Modified Graefe. By a sudden movement of eye, patient caused iris to slip over knife, so that a piece was cut off in completing the corneal section. This piece was cut in the usual place for iridectomy, and was a trifle larger than normal iridectomy. Considerable hemorrhage into anterior chamber. Dec. 19, bandage omitted. Recovery normal. 21 days.	V. = 0.4.
24	Male. 35 Good.	Senile. 4 years. Normal.	Dec. 13, 1894. Cocaine. Modified Graefe. Cataract somewhat over mature. 19 days.	V. = 0.8—.
25	Male. 48 Irish. Good.	Senile. 7 years. Normal.	Dec. 30, 1894. Cocaine. Modified Graefe. Bandage changed daily after operation and omitted on seventh day. Posterior synechia. 19 days.	V. = 0.2.
26	Male. 60 Irish. Good.	Senile. 1 year. Normal.	Dec. 31, 1894. Cocaine. Modified Graefe. Normal. Omit bandage on seventh day. 27 days.	V. = 0.6—.
27	Male. 71 Irish. Good.	Senile. 3 years. Normal.	Jan. 9, 1895. Cocaine. Modified Graefe. During operation there was a prolapse of vitreous, which was excised. Jan. 23, double bandage omitted, and monocular bandage used. Omitted Jan. 26. Iris caught in wound. Capsule. 22 days.	V. = 0.7—.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
28	Female. 55 Irish. Fair. Rheumatic.	Senile. 3 months. Normal.	Jan. 11, 1895. Cocaine. Modified Graefe. Lens unripe. After expulsion of opaque cortical, there presented in wound what was supposed to be clear cortical, which, after manipulation, proved to be posterior capsule, and vitreous back of it. A piece of vitreous the size of a pea was lost. Bandage omitted Jan. 18. 26 days.	V. = 0.1.
29	Male. 62 Irish. Good.	Senile. 11 months. Good.	Jan. 17, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on Jan. 24. 20 days.	V. = 0.6.
30	Female. 50 Amer. Good.	Senile, mature. 18 months. Good.	Jan. 18, 1895. Cocaine. Modified Graefe. Normal. Eczematous redness and swelling of lids. Monocular bandage during daytime. 28 days.	V. = 0.4.
31	Female. 54 Nova Scotia. Good.	Senile, mature. Has had a preliminary iridectomy. Eye diverges. Good.	Jan. 18, 1895. Modified Graefe. Incision small, enlarged with scissors. Jan. 23, bandage omitted in daytime. Iris adherent. Opaque capsule. 19 days.	V. = 0.5+.
32	Female. 58 Irish. Fair. Rheumatic.	Senile, mature. 18 months. Fair. Patient stupid.	Jan. 19, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted Jan. 28. 31 days.	V. = 0.3−. Illiterate.
33	Female. 57 Irish. Good.	Senile, mature. 15 months. Good.	Jan. 28, 1895. Cocaine. Modified Graefe. Patient behaved badly, causing prolapse of iris, which was excised. Bandage omitted on eighth day. 23 days.	V. = 0.5.
34	Male. 60 Sweden. Good.	Senile, mature. 3 years. Good.	Feb. 6, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted tenth day. Capsule. 14 days.	V. = 0.7−.
35	Female. 71 Amer. Fair. Kidney disease.	Senile, mature. 4 years. Good.	Feb. 6, 1895. Cocaine. Modified Graefe. Normal. Feb. 14, monocular bandage. 22 days.	V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
36	Male. 60 Nova Scotia. Good.	Senile, mature. 2 years. Good.	Feb. 7, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on ninth day. 20 days.	V. = 0.2.
37	Female. 50 P. E. I. Good.	Mature senile. 4 years. Leucomata, o.s.	Feb. 11, 1895. Cocaine. Modified Graefe. Normal. 17 days.	V. = 0.5.
38	Male. 78 Amer. Good.	Mature senile. 2½ years. Good.	Feb. 13, 1895. Cocaine. Modified Graefe. Operation without incident. Bandage removed ninth day. 16 days.	V. = 0.2—.
39	Male. 48 Irish. Good.	Mature senile. 18 years. Good.	Feb. 14, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on ninth day. 16 days.	V. = 0.4—.
40	Male. 48 France. Good.	Senile. Lens. Cretaceous atrophy of iris. Divergens, o.s. Good.	Feb. 18, 1895. Cocaine. Modified Graefe. Lens chalky and extracted with difficulty. Part of cortical which was adherent to iris was removed with scoop. Bandage omitted on seventh day. June 5, secondary. June 13, fundus normal, congenital amblyopia. 12 days.	V. = quantitative.
41	Female. 56 Amer. Good.	Senile. Normal.	Feb. 18, 1895. Cocaine. Modified Graefe Operation without incident. Bandage omitted on seventh day. Posterior synechiæ. July 1, secondary. July 8, secondary. 32 days.	V. = 0.2.
42	Male. 68 Scotl'nd Good.	Senile. 2 years.	Feb. 19, 1895. Cocaine. Modified Graefe. An attempted simple extraction. Section proved to be too small, and sphincter iridis held lens firmly. Iridectomy. Expression of lens then was easily done. Bandage removed on seventh day. No capsule. Vitreous clear. 18 days.	V. = 0.7—.
43	Male. 48 Canada. Good.	Senile, mature. Duration doubtful. Good.	Feb. 21, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on seventh day. Some capsule. 19 days.	V. = 0.1.
44	Female. 52 Ireland. Good.	Senile. 1 year. Good.	March 5, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on seventh day. 25 days.	V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
45	Male. 64 Ireland. Good.	Senile. 4 months. Good.	March 5, 1895. Cocaine. Modified Graefe. Patient somewhat unruly in regard to bandage, which was omitted on eighth day. Capsule. 30 days.	V. = 0.3.
46	Female. 71 Ireland. Good.	Senile. 3 years. Good.	March 8, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on eighth day. Small tag of iris caught in wound. Some capsule, but good central opening. 21 days.	V. = 0.7.
47	Female. 42 Ireland. Good.	Mature senile. 2 years. Good.	March 12, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on seventh day. Some capsule. 13 days.	V. = 0.7—.
48	Male. 57 Ireland. Good.	Senile. 18 months. Good.	March 15, 1895. Cocaine. Modified Graefe. Incision was small and was enlarged with scissors. In expressing lens a small particle of vitreous was lost. Prolapse of iris. Shallow anterior chamber. Capsule. Bandage omitted on fifth day. 27 days.	V. = 0.7.
49	Male. 69 Amer. Good.	Senile. 4 years. Pt. has an injected Pterygium, o. cl.	March 15, 1895. Cocaine. Modified Graefe. Normal. Bandage changed in afternoon, as patient had pulled it off. Changed daily. Considerable capsule. 18 days.	V. = 0.2—.
50	Male. 69 Ireland. Good.	Mature senile. 3 years. Good.	March 16, 1895. Cocaine. Modified Graefe. After the cut it was impossible to express the lens. Iridectomy was done. Iris was thick and lens held to capsule. Patient continually pulled bandage away; omitted on seventh day. Considerable capsule. 18 days.	V. = 0.3—.
51	Female. 73 Ireland. Good.	Mature senile. 3 years. Poor.	March 19, 1895. Cocaine. Modified Graefe. Counter puncture was made far out in sclera; otherwise operation was without incident. Bandage omitted on tenth day. Some capsule. 36 days.	V. = 0.1. Illiterate.
52	Male. 76 Ireland.	Mature senile. 2 years. Good.	March 26, 1895. Cocaine. Modified Graefe. Normal. April 4, bandage removed. Cornea hazy. Hypopyon. No pain or sign of trouble until bandage was removed. April 15, less injection. Pupillary area filled with fibrinous mass. 32 days.	V. = fingers.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
53	Male. 78 Amer. Good.	Senile, mature. 1 year. Good.	April 30, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on seventh day. Capsule. Considerable injection in ciliary region. 31 days.	V. = 0.1.
54	Female. 60 Ireland. Good.	Mature senile. 2 years. Good.	April 30, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on eighth day. Eye injected. Considerable capsule. 21 days.	V. = 0.4. Illiterate.
55	Female. 65 Ireland. Good.	Senile, mature. 3 years.	May 3, 1895. Cocaine. Modified Graefe. Small, hypermature lens. Bandage omitted on seventh day. Some capsule. 18 days.	V. = 0.3—.
56	Female. 69 Ireland. Good.	Senile, mature. 2 years. Good.	May 3, 1895. Cocaine. Modified Graefe. Within two hours after operation patient showed signs of delirium. Monocular bandage was applied and torn off repeatedly. Omitted next day. Slight hemorrhage in anterior chamber. May 6. Patient delirious. Relatives decided to take her home against advice. 4 days.	V. not taken.
57	Male. 63 Amer. Good.	Senile, mature. 42 months. 3 yrs. ago eye was operated on for cataract. While expressing lens, the lens sank back into vitreous and was lost. For a few days afterwards he had V. of 0.4. Then apparently lens returned to position and the V. grew worse. Good.	May 4, 1895. Cocaine. Modified Graefe. The pupillary area and coloboma of iris caused by previous iridectomy was filled with tough capsule. This was with difficulty divided by Graefe knife. A knife needle would not divide it. Lens was extracted with a scoop and piece of thickened capsule cut off. A small pupil was obtained. Bandage was omitted on seventh day. Some capsule which does not wholly cover pupil, leaving a small irregular opening. 22 days.	V. = 0.1—.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
58	Female. 68 Amer. Fair. Extremely nervous. Had once a fall which affected her head	Senile, mature. 18 months. Good.	May 7, 1895. Cocaine. Modified Graefe. Patient could not keep her eye quiet during operation and some vitreous was lost. Patient restless during convalescence. Bandage omitted on ninth day. Some capsule. 15 days.	V. = 0.3.
59	Male. 58 Ireland. Good.	Mature senile. 4 years. Good.	May 10, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on seventh day. 16 days.	V. = 0.4—.
60	Female. 63 Scotl'nd Good.	Mature senile. 7 years. Good.	May 14, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on seventh day. Slight ciliary congestion. 23 days.	V. = 0.4.
61	Male. 80 Amer. Good.	Mature senile. 10 months. Good.	May 17, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on seventh day. Some haziness of cornea. Some capsule. 20 days.	V. = 0.4.
62	Male. 64 Amer. Good.	Mature senile. 8 months. Good.	May 21, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on seventh day. Dense capsule. 13 days.	V. = 0.1—.
63	Male. 72 Ireland. Good.	Mature senile. 12 months. Good.	May 24, 1895. Cocaine. Modified Graefe. Patient had a chill and tore off bandage on second day. Bandage omitted. Wound healed nicely. Some capsule. 13 days.	V. = 0.3. Illiterate.
64	Male. 62 Amer. Good.	Mature senile. 3 years. Good.	May 28, 1895. Cocaine. Modified Graefe. Bandage omitted on sixth day. Considerable capsule and photophobia. Patient anxious to go home and does so against advice. 11 days.	V. = $\frac{1}{25}$.
65	Male. 73 Ireland Good.	Senile, mature. Good. 2 years.	June 7, 1895. Cocaine. Modified Graefe. During the dressing, patient squeezed his lids together and there was some loss of vitreous. On third day bandage was changed to monocular. Circumcorneal injection. 15 days. Discharged at own request.	V. = 0.1—.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
66	Female. 65 Ireland. Good.	Mature senile. 4 years. Good.	June 10, 1895. Cocaine. Modified Graefe. Operation normal. Bandage omitted on eighth day. 26 days.	V. = 0.3.
67	Male. 68 Amer. Good.	Mature senile. 10(?) years. Lens unripe. Good.	June 12, 1895. Cocaine. Modified Graefe. Lens unripe and sclerosed. Great difficulty in pressing out lens. Section enlarged three times, and then expressed with difficulty. Bandage was omitted on sixth day. Patient delirious. Hemorrhage in anterior chamber. 21 days.	V. = shadows.
68	Male. 79 Germany. Good.	Mature senile. Good.	June 15, 1895. Cocaine. Modified Graefe. After expression of lens there was complete collapse of cornea. Iris rolled up above scleral flap; could not be deduced with spatula or eserine, so iridectomy was performed. Bandage omitted on sixth day. 13 days.	V. = 1.00—.
69	Female. 62 Ireland. Good.	Mature senile. 3 years. Good.	June 15, 1895. Cocaine. Modified Graefe. Operation normal. Patient behaved badly. Bandage omitted on seventh day. Normal recovery. 18 days.	
70	Male. 71 Engl'nd. Poor.	Mature senile. Iritic adhesions. Not good as to projection.	June 22, 1895. Cocaine. Modified Graefe. July 3. Patient was discharged at own request. Eye was in process of recovery. 11 days.	Not taken.
71	Female. 72 Engl'nd. Good.	Mature senile. 2 years. Good.	July 1, 1895. Cocaine. Modified Graefe. Normal operation and recovery. 23 days.	V. = 0.3.
72	Female. 60 Ireland. Fair.	Mature senile. 8 months. Good.	July 6, 1895. Cocaine. Modified Graefe. Bandage omitted on tenth day. Keratitis. 27 days.	V. = 0.2—. Illiterate.
73	Male. 66 Amer. Poor.	Mature senile. 20 years. Good.	July 11, 1895. Cocaine. Modified Graefe. Considerable soft cortical. Operation without incident. Bandage removed on seventh day. 13 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
74	Female. 80 Amer. Good.	Mature senile. 3 years. Good.	July 15, 1895. Cocaine. Modified Graefe. Soft globe. Cornea collapsed during operation. Bandage omitted on eighth day. Considerable injection. Secondary operation advised. 30 days.	V. = 0.2—.
75	Female. 85 Amer. Good.	Mature senile. 1 year. Good.	July 22, 1895. Cocaine. Modified Graefe. Cornea collapsed after operation, and did not fill out before bandage was applied. All dressings removed by patient. Wound healed, slightly gaping. Anterior chamber shallow. Pupil dilated. Considerable capsule. General congestion. 14 days.	V. = 0.1.
76	Male. 75 Amer. Good.	Mature senile. 1 year. Good.	July 23, 1895. Cocaine. Modified Graefe. Iridectomy done with knife. Bandage omitted on seventh day. 17 days.	V. = 0.4.
77	Female. 63 Scotl'nd Good.	Mature senile. 1 year. Good.	July 23, 1895. Cocaine. Modified Graefe. Iridectomy done with knife. Bandage omitted on eighth day. Considerable congestion. 21 days.	V. = 0.4+.
78	Male. 41 France. Good.	Mature senile. 10 years. Good. Central leucoma.	July 24, 1895. Cocaine. Modified Graefe. Simple extraction attempted. The iris followed the point of knife through corneal wound, and iridectomy was necessary as lens would not pass through pupil. Bandage omitted on seventh day. 23 days.	V. = 0.2.
79	Male. 65 Ireland. Good.	Mature senile. 4 years. Good.	July 30, 1895. Cocaine. Modified Graefe. Cornea collapsed after incision. Bandage changed daily and omitted on seventh day. Some capsule. 18 days.	V. = 0.8—.
80	Female. 62 Amer. Fair.	Mature senile. 2 years. Poor.	July 31, 1895. Cocaine. Modified Graefe. Iridectomy done three years ago for glaucoma. Operation without incident. Aug. 2, much nausea and vomiting, causing prolapse of vitreous. Prolapse snipped off. Iodoform bandage. Considerable congestion and chemosis muco-purulent discharge. 35 days.	V. = nil.
81	Female. 74 Ireland. Good.	Mature senile. 4 years. Good.	Aug. 2, 1895. Cocaine. Modified Graefe. Normal operation and recovery. Bandage changed daily. 14 days.	V. = 0.3—.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
82	Male. 61 Amer. Good.	Mature senile. 18 years.	Aug. 5, 1895. Cocaine. Modified Graefe. Some capsule left in pupil. Hyoscin daily for one week, omitted the eighth day. Considerable capsule, one piece apparently adherent to iris, causing ciliary injection and pain. 41 days.	V. = shadows.
83	Male. 72 Amer. Good.	Mature senile 6 months. Good.	Aug. 6, 1895. Cocaine. Modified Graefe. Bandage omitted on eighth day. Some injection, considerable capsule. Aug. 31, discission. 29 days.	V. = 0.1—.
84	Female. 65 Amer. Good.	Mature senile. 4 years. Good.	Aug. 8, 1895. Cocaine. Modified Graefe. Bandage omitted on seventh day. Pupil irregular, some posterior adhesions. 14 days.	V. = 0.3—.
85	Male. 71 Amer. Good.	Mature senile. 4 years. Good.	Aug. 15, 1895. Cocaine. Modified Graefe. Operation without incident. Bandage changed daily after operation and omitted on seventh day. 17 days.	V. = 0.4.
86	Male. 65 Scotl'nd Good.	Mature senile. 2 years. Good.	Aug. 21, 1895. Cocaine. Modified Graefe. On account of a movement of the lens an iridectomy was done. Bandage was omitted on fourth day. 15 days.	V. = 0.3.
87	Male. 63 Amer. Good.	Mature senile. 4 years. Good.	Aug. 21, 1895. Cocaine. Modified Graefe. Globe soft. Small piece of cortical left behind. Bandage omitted on ninth day. Recovery normal. 15 days.	V. = 0.2.
88	Female. 42 Amer. Good.	Mature senile. 4 months. Good.	Aug. 26, 1895. Cocaine. Modified Graefe. During extraction the globe became flabby. Small nucleus. Great deal of cortical. Loss of fluid vitreous. Bandage omitted on fifth day. Capsule quite dense. Some cortical. 18 days.	V. = 0.2—.
89	Male. 61 Amer. Good.	Mature senile. 18 months. Good.	Aug. 26, 1895. Cocaine. Modified Graefe. Normal operation and recovery. Bandage omitted on fifth day. 18 days.	V. = 0.1.
90	Female. 67 Ireland. Good.	Mature senile. 18 months. Good.	Aug. 30, 1895. Cocaine. Modified Graefe. Operation without incident. Bandage omitted on eighth day. 15 days.	V. = 0.2.

MATURE SENILE CATARACTS.

Simple Extractions.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
91	Female. 56 Amer. Good.	9 months. Senile. Good.	Sept. 10, 1894. Cocaine. Simple extraction. Cornea tough. Counter puncture made with difficulty. Completion of corneal incision 1½ mm. from corneal margin. Large lens removed, followed by considerable cortical. Bandage omitted on seventh day. 22 days.	V. = 0.4.
92	Male. 60 Irish. Good.	3 years. Senile. Good.	Sept. 15, 1894. Cocaine. Simple extraction. Large nucleus. Some cortical. Iris well in place. 24 days.	V. = 0.4+.
93	Male. 64 Amer. Fair.	5 years. Senile. Normal.	Sept. 21, 1894. Cocaine. Simple extraction. Operation without incident. Bandage omitted on fifth day. Pupil large and clear. 28 days.	V. = 0.4.
94	Male. 56 German. Good.	3 years. Senile. Normal.	Sept. 26, 1894. Cocaine. Simple extraction. Fairly large nucleus, some cortical. Patient had coughing spell after extraction. No prolapse. Oct. 1, prolapse through middle third of wound. Outer two thirds firmly healed. Prolapse cut off and iris replaced. Bandage. Oct. 5, prolapse shrinking up. 29 days.	V. = 0.4.
95	Male. 54 Amer. Good.	9 years. Senile. Normal.	Sept. 27, 1894. Cocaine. Simple extraction. Recovery normal. 15 days.	V. = 0.2.
96	Male. 70 Irish. Good.	8 years. Senile. Normal. Leucoma.	Oct. 4, 1894. Cocaine. Simple extraction. Normal recovery. 15 days.	V. = 0.5. Leucoma.
97	Male. 75 Irish. Good.	1 year. Senile. Normal.	Oct. 8, 1894. Cocaine. Simple extraction. Normal operation. Some capsule in pupil. Anterior chamber very shallow. Oct. 19, capsule divided with knife. Needle. Atropine. Corrosive pad. Oct. 20, pupil opened more than before but only about half dilated. 18 days.	V. = 0.7.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
98	Male. 50 Irish. Good.	2 years. Senile. Normal.	Oct. 11, 1894. Cocaine. Simple extraction. When capsule was divided, lens showed tendency to luxate easily. With delivery of lens which did not require especial pressure, a drop of vitreous escaped, leaving small amount of cortical in pupil, which dropped to lower part of anterior chamber. Vitreous divided with scissors close to wound. When eserine was put in, patient squeezed lids and more vitreous escaped. This was cut off and also a third prolapse. Wound in good position, pupil small and central before bandage. Oct. 15, bandage omitted. Wound healed. Anterior chamber rather shallow. Pupil central. Some cortical. Eye quiet. 15 days.	V. = 0.06—.
99	Male. 64 German. Good.	1 year. Senile. Normal.	Oct. 15, 1894. Cocaine. Simple extraction. Normal operation and recovery. 11 days.	V. = 0.2.
100	Female. 62 Irish. Poor. Dyspeptic.	2½ years. Senile. Normal. Small, faint, nebulæ, central.	Oct. 18, 1894. Cocaine. Simple extraction. Normal operation. Nov. 5, secondary operation. Capsule divided with Graefe knife. Nov. 8, Iritis. Much lachrymation and photophobia. Dec. 3, severe epistaxis requiring packing. 54 days.	V. = 0.2.
101	Male. 74 Amer. Feeble.	2 years. Senile. Normal.	Oct. 18, 1894. Cocaine. Simple extraction. Normal operation and recovery. 17 days.	V. = 0.4—.
102	Female. 52 Irish. Fair.	2 years. Senile. Normal.	Oct. 20, 1894. Cocaine. Simple extraction. Normal operation. Bandage omitted fifth day. Oct. 27, eye injected. Iritis. Nov. 10, pupil blocked, cornea clear. April 6, 1895, secondary operation. Bandage removed second day after. Eye white and quiet. Washed with formaldehyde. 42 days.	V. = shadows May 10, 1895. T. o. d. +1.
103	Female. 68 Amer. Good.	2 years. Senile. Normal.	Oct. 21, 1894. Cocaine. Simple extraction. Normal operation and convalescence. Considerable soft cortical. Posterior capsule opaque down and out. March 14, 1895, secondary operation. 16 days.	V. = 0.9—.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
104	Female. 72 Amer. Good.	3 years. Senile. Normal.	Oct. 25, 1894. Cocaine. Simple extraction. Normal operation. Bandage omitted on third day. Some capsule present. 25 days.	V. = 0.4 +.
105	Female. 84 Amer. Good.	4 years. Senile. Normal.	Nov. 8, 1894. Cocaine. Simple extraction. Normal operation. Bandage omitted third day. Much cortical. Dec. 1, discharged against advice.	V. = 0.1—.
106	Male. 46 Irish. Good.	1 year. Senile. Normal.	Nov. 12, 1894. Cocaine. Simple extraction. Normal operation and recovery. Some capsule. Nov. 26, secondary operation. 19 days.	V. = 0.4.
107	Male. 63 Irish. Good.	4 years. Senile. Normal.	Nov. 15, 1894. Cocaine. Simple extraction. Normal operation. Bandage omitted on fourth day. Nov. 22, iritis with pain and lachrymation. Dec. 8, eye quiet. Pupil small and round. 24 days.	V. = 0.4.
108	Male. 65 Irish. Good.	2 months (?) Senile. Normal.	Nov. 16, 1894. Cocaine. Simple extraction. Iris rather rigid. Recovery normal. Some capsule left. 19 days.	V. = 0.2.
109	Female. 74 Irish. Fair.	2 years. Senile. Normal.	Nov. 19, 1894. Cocaine. Simple extraction. Bandage omitted on third day. Four days later, iritis. Dec. 16, eye much more quiet and slowly whitening out. Anterior chamber deep. 28 days.	V. = fingers at $\frac{1}{3}$ metre.
110	Female. 50 Amer. Good.	2 years. Senile. Normal.	Nov. 19, 1894. Cocaine. Simple extraction. Normal operation. Lens rather slow in engaging. Bandage omitted on third day. Eye injected. Dec. 5, discharged against advice. Nov. 30, secondary operation. Capsule divided with Graefe knife. 17 days.	V. = 0.7.
111	Female. 39 Russia. Good.	Senile, mature. 12 months. Old leucomata o. s. During last month central ulcer, o. d. Good.	Jan. 28, 1895. Simple extraction. Normal. Bandage omitted sixth day. 25 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing process. Duration of Treatment.	Vision.
112	Female. 71 Amer. Good.	Mature senile. 4 years. Good.	Feb. 15, 1895. Simple extraction. Extraction proceeded in the usual way except when an attempt was made to remove some remaining cortical, a cystotome was used which divided posterior capsule and let out considerable vitreous. Feb. 17, anterior chamber re-established. Iritis. Bandage omitted Feb. 25. 28 days.	V. = 0.1.
113	Male. 65 Ireland. Good.	Senile. 2 months. Good.	March 6, 1895. Cocaine. Simple extraction. Normal. March 15, bandage monocular. Some capsule. Posterior synechia. 28 days.	V. = 0.7—.
114	Female. 60 Ireland. Good.	Mature senile. 9 months. Good.	March 14, 1895. Simple extraction. Normal. March 28, secondary. Cocaine. 21 days.	V. = 0.8—.
115	Male. 67 Engl'nd. Fair.	Mature senile. 1 year. Good.	March 14, 1895. Simple extraction. Large amount of soft cortical, some of which was left. Cornea collapsed during operation. Bandage omitted on fourth day. 43 days.	V. = 0.9—.
116	Male. 66 Ire and. Good.	Mature senile. 8 months. Good.	March 25, 1895. Cocaine. Simple extraction. Some cortical adhered to capsule after expressing the lens. Bandage removed on fourth day. Considerable capsule. April 8, secondary. Some cortical in lower and outer part of pupil.	V. = 0.8—. Illiterate.
117	Male. 69 Amer. Good.	Mature senile. 2½ years. Good.	April 8, 1895. Cocaine. Simple extraction. Operation without incident. Prolapse of iris snipped off with scissors April 15. Monocular bandage April 25, changed daily. May 16, secondary. Small hemorrhage in anterior chamber. 53 days.	V. = shadows.
118	Male. 65 Ireland. Good.	Senile, mature. 1 year. Good. Two opac. of cornea.	April 18, 1895. Cocaine. Simple extraction. When expressing the lens, some fluid vitreous escaped without a prolapse of the iris. Bandage removed on fourth day. Anterior chamber re-established. Some cortical. 20 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
119	Female. 57 Ireland. Good.	Senile. 1 year. Good. Fundus o. d. showed cupping of disc. No raise in T. o. s. cystoid cicatrix a. d.	April 25, 1895. Cocaine. Simple extraction. Escape of some fluid vitreous, otherwise normal operation. Patient fell out of bed on second day and struck on back of her head. Complained of sensation of light in eyes. Bandage omitted on fourth day. Wound well closed. Two small ant. synech. May 16, secondary. 34 days.	V. = 0.4+. Illiterate.
120	Female. 53 Brit. Prov. Good.	Mature senile. 1 year. Good.	April 25, 1895. Cocaine. Simple extraction. Normal. Bandage omitted on fourth day. May 16, secondary. Small piece of pigment in lower part of pupil caused by secondary. 34 days.	V. = 0.7.
121	Female. 67 Amer. Good.	Senile. 1½ years. Good.	April 25, 1895. Cocaine. Simple extraction. Normal. Bandage omitted on fourth day. May 9, secondary. May 12, considerable capsule behind iris. 19 days.	V. = 0.4.
122	Female. 64 Ireland. Good.	Mature senile. 3 years. Good.	May 9, 1895. Cocaine. Simple extraction. Simple extraction was attempted. Eye normal. Section smooth. Capsule well divided, wound possibly a little small. On attempting to luxate the lens, the wound did not gape as usual, but the iris hooked over the upper edge of lens and the pupil did not dilate. After long manipulation, vitreous presented at outer side of wound. Wound was a little enlarged with scissors at inner side. Small iridectomy was made. An attempt was made with cystome to pull lens over to outer side and apparently was a success, but on further pressure a small amount of vitreous protruded and the lens fell back to the inner side. Then the wire loop was introduced and the lens was removed with moderate loss of vitreous. The vitreous was divided between lips of wound. Wound was left in good position. Bandage was omitted on third day. Good anterior chamber. Wound well closed. May 20, considerable ciliary congestion. Capsule. 38 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
123	Male. 61 Amer. Good.	Mature senile. 6 years. Good.	May 9, 1895. Cocaine. Simple extraction. Normal. Bandage omitted on third day. Posterior synechia. May 27, secondary. 23 days.	V. = 1.00—.
124	Male. 68 Amer. Good.	Mature senile. 7 months. Good.	May 13, 1895. Cocaine. Simple extraction. Cortical in pupil which is round and central. Posteria synech. May 27, secondary. Considerable conjunctival congestion after secondary. 34 days.	V. = 0.1—.
125	Female. 73 Amer. Good.	Mature senile. 7 years. Fair.	May 16, 1895. Cocaine. Simple extraction. Bandage omitted on seventh day. Wound perfectly healed on twelfth day. Webs in vitreous. Rather ill-defined crescent on outer side of disc. 26 days.	V. = barely fingers.
126	Male. 82 Amer. Good.	Mature senile. 2½ years. Good.	May 23, 1895. Cocaine. Simple extraction. Operation done with some difficulty on account of patient winking, which he could not control. June 3, iris attached to wound each side of coloboma. Fair pupil. Pigment nearly the length of wound. 24 days.	V. = 0.4—.
127	Female. 65 Brit. Prov. Good.	Mature senile. 7 years. Good.	May 23, 1895. Cocaine. Simple extraction. Bandage omitted on fourth day. June 17, secondary. 32 days.	V. = 0.3.
128	Male. 70 Amer. Good.	Mature senile. 2 years. Good.	May 23. Cocaine. Simple extraction. Bandage omitted on fourth day. 13 days.	V. = 0.1—.
129	Male. 78 Ireland. Good.	Mature senile. 4½ years. Good.	May 23. Cocaine. Simple extraction. Bandage omitted on fourth day. June 11, discharged at own request. 20 days.	V. = 0.1—.
130	Male. 58 Sweden. Good.	Mature senile. 8 months. Good.	May 23, 1895. Cocaine. Simple extraction. Patient behaved badly. Pulled off bandage. May 27, puffiness of lid. Cornea hazy. Chemosis. Pain. Pus fills anterior chamber. June 4, patient etherized. Evisceration. Stump healed and in good condition at discharge, June 26. 35 days.	V. = nil.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
131	Male. 82 Ireland. Good.	Mature senile. 9 years. Post. synech., o. d. Preliminary iridectomy two years before.	May 27, 1895. Cocaine. Simple extraction. Iris found to be prolapsed to a large extent soon after operation. May 30, mass of exudation in pupil. Bleb of thick vitreous infiltrated with blood hanging over inner half of cornea and overlapping nearly the whole of the wound. When this was snipped off there was seen behind the inner part of the iris and the coloboma a dense yellowish white mass which did not look purulent. June 3, wound was apparently well closed. 20 days.	V.=shadows.
132	Female. 67 Brit. Prov. Good.	Mature senile. 2½ years. Mucocele. Good.	May 27, 1895. Cocaine. Simple extraction. Bandage omitted on third day. Round central pupil. Good anterior chamber. Slight ciliary congestion. 12 days.	V. = 0.3.
133	Female. 57 Ireland. Fair.	Mature senile. 4 years. Good.	May 27, 1895. Cocaine. Simple extraction. Bandage omitted on third day. Good sized pupil, clear. 20 days.	V. 0.3.
134	Male. 75 Engl'nd. Good.	Mature senile. 6 months. Good.	July 27, 1895. Cocaine. Simple extraction. Iridectomy after removal of lens. Bandage omitted on sixth day. Normal recovery. 18 days.	V. = 0.2.

MATURE SENILE CATARACTS.

Simple Extractions with Button-hole in Iris.

135	Femal e. 50 Irish. Good.	3 years. Senile. Normal.	Oct. 6, 1894. Cocaine. Button-hole operation. Operation normal. Oct. 17, eye much injected. Patient thinks eye was hit in night. Deep anterior chamber. Lachrymation. Cyclitis. Oct. 18, no pain. Lachrymation and injection with gelatinous œdema of bulbæ conjunctiva. Cornea and aqueous hazy. Pupil can just be seen by oblique light. Oct. 21, paracentesis anterior chamber evacuated. Oct. 25, discharged at own request. 20 days.	V.= shadows.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
136	Female. 56 Irish. Good.	2 years. Senile. Normal.	Oct. 17, 1894. Cocaine. Buttonhole operation. Recovery normal in regard to eye. Patient had slight attack of pleurisy. 22 days.	V. = 0.7.
137	Male. 59 Amer. Good.	1 year. Senile. Normal.	Oct. 20, 1894. Cocaine. Buttonhole operation. Normal operation and recovery. 8 days.	V. = 0.2—.
138	Male. — Amer. Good.	14 months. Senile. Normal.	Nov. 3, 1894. Cocaine. Buttonhole operation. Normal operation and recovery. 14 days.	V. = 0.3.
139	Male. 63 Amer. Feeble (from old bullet wound).	3 years. Senile. Normal.	Nov. 21, 1894. Cocaine. Buttonhole operation. Lens adherent to iris. Bandage omitted eighth day. Pupil small, capsule present. Eye injected. April 3, secondary operation. April 6, small central hole in capsule. Deep anterior chamber. 27 days.	V. = 0.4.
140	Male. 72 Irish. Good.	Senile. Normal. Muco-purulent conjunc.	Nov. 21, 1894. Cocaine. Buttonhole operation. Normal operation and recovery. Bandage omitted eighth day. 22 days.	V. = 0.4.
141	Female. 69 Irish. Good.	Senile. 3 years. Normal.	Dec. 10, 1894. Cocaine. Buttonhole operation. Bandage omitted three days after operation. Good anterior chamber. Pupil small and irregular. Numerous iritic adhesions. Some capsule. Dec. 15, monocular bandage. Anterior chamber evacuated by wound opening. 25 days.	V. = 0.5.
142	Male. 69 Irish. Good.	Senile. 4 years. Normal.	Dec. 13, 1894. Cocaine. Buttonhole operation. Deep anterior chamber. Large hard nucleus. Dec. 17, bandage omitted. Jan. 17, no adhesions of iris to wound. Pupil irregular. Reacts well to light. 15 days.	V. = 0.5—.
143	Female. 78 Amer. Fair.	Mature senile. 18 months. Good.	March 20, 1895. Cocaine. Buttonhole operation. Normal. Single bandage given March 27 and omitted April 3. Eye considerably injected. Dense string of capsule runs obliquely across pupil. 17 days.	V. = 0.2+.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
144	Female. 53 Ireland. Good.	Mature senile. 2 years. Good.	March 27, 1895. Cocaine. Buttonhole operation. Normal. Bandage removed on seventh day. Small thread of capsule. Pupil slightly irregular. 16 days.	V. = 0.5.
145	Male. 34 Amer. Good.	Mature senile. 1 year. Good.	May 8, 1895. Cocaine. Buttonhole operation. Normal. Bandage omitted on seventh day. 21 days.	V. = 0.4.
146	Female. 77 Ireland. Good.	Mature senile. 3 years. Good.	May 11, 1895. Cocaine. Buttonhole operation. Normal. Bandage omitted on seventh day. Some capsule. 16 days.	V. = 0.7.
147	Female. 62 Ireland. Good.	Mature senile. 13 months. Good.	May 25, 1895. Cocaine. Buttonhole extraction. Bandage changed daily and omitted on fifth day. 15 days.	V. = 0.4—.
148	Male. 60 Amer. Good.	Mature senile. 6 years. Well matured cataract.	June 5, 1895. Cocaine. Buttonhole extraction. Deep anterior chamber. Large nucleus. Small cortical. Slight laceration of pupillary border of iris on passage of lens. Iris in good position. Round pupil. Bandage changed daily. June 17, patient was discharged at own request. 13 days.	V. = 0.5.
149	Female. 75 England Fair. Rheumatic.	Senile, mature. 4 years. Lens looks hard and amber tinted. Pterygium extending about ⅓ of distance to centre of cornea. Good.	June 7, 1895. Cocaine. Buttonhole extraction. Deep anterior chamber, soft cortical. Iris in good position. Bandage omitted on fifth day. Central capsule. Some adhesions of iris to capsule. Corneal opacities. Secondary, June 20. 21 days.	V. = 0.2. Irreg. astig.
150	Female. 46 Ireland. Good.	Senile, mature. 4 years. Lens completely opaque. V. = light. Some swelling of lens. Shallow anterior chamber. Good.	June 7, 1895. Cocaine. Buttonhole extraction. Large amount of soft cortical. Bandage omitted on fifth day. Pupil well dilated and round. Secondary, June 20. 20 days.	V. = 0.7—.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
151	Male. 68 Ireland. Good.	Mature senile. 2 years. Deep anterior chamber. Cataract looks soft. Good.	June 12, 1895. Cocaine. Buttonhole extraction. Considerable cortical. Iris in good position. Pupil round. 16 days.	V. = 0.5.
152	Female. 71 Amer. Fair.	Mature senile. 5 years.	June 13, 1895. Cocaine. Buttonhole extraction. Operation normal. Bandage omitted on seventh day. 15 days.	V. = 0.3—.
153	Female. 55 Amer. Good.	Mature senile.	June 20, 1895. Cocaine. Buttonhole extraction. Normal operation and recovery. Bandage omitted on eighth day. 17 days.	V. = 0.2.
154	Male. 63 Amer. Good.	Mature senile. 2 years. Good.	June 28, 1895. Cocaine. Buttonhole extraction. Operation without incident. Patient complained of pain on second day. Panophthalmitis. 42 days.	V. = nil.
155	Female. 60 Ireland. Good.	Mature senile. 1 year. Good.	July 22, 1895. Cocaine. Buttonhole operation. Bandage omitted on eighth day. Capsule. Secondary, Aug. 7. 23 days.	V. = 0.1—.
156	Female. 82 Amer. Good.	Mature senile. 2 years. Good.	Aug. 16, 1895. Cocaine. Buttonhole extraction. Operation without incident. Bandage omitted on fourth day. Some capsule and cortical. 14 days.	V. = 0.2.
157	Male. Sweden. Good.	Mature senile. 4 months. Good.	Aug. 21, 1895. Cocaine. Buttonhole extraction. Operation without incident. Bandage omitted on fifth day. 11 days.	V. = 0.6.
158	Female. 82 Amer. Good.	Mature senile. 4 years. Good.	Aug. 22, 1895. Cocaine. Buttonhole extraction. Bandage omitted on seventh day. Considerable capsule. 13 days.	V. = 0.2.

TRAUMATIC AND OTHER CATARACTS NOT SENILE.

159	Male. 22 German. Good.	3 years. Traumatic. Fair.	Sept. 22, 1894. Cocaine. Buttonhole operation. Bandage omitted eighth day. Some capsule. Large web in vitreous and probable separation retina. 12 days.	V. = quantitative.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
160	Male. 30 Amer. Good.	1½ years. Traumatic. Good.	Sept. 22, 1894. Cocaine. Buttonhole operation. Normal recovery. Bandage omitted eighth day. 12 days.	V. = 0.1.
161	Male. 21 Amer. Good.	3 mos. Traumatic. Normal.	Nov. 2, 1894. Cocaine. Discission. Nov. 4, considerable swelling of lens. Absorption going on. Vision not taken. 5 days.	
162	Male. 12 Amer. Good.	1 year, 3 mos. Traumatic. Normal.	Nov. 9, 1894. Cocaine. Discission. Dec. 14, second operation. Lens hard. Dec. 22, discharged at own request. 5 days.	Not taken.
163	Male. 32 Amer. Good.	8 weeks. Traumatic. Normal.	Nov. 19, 1894. Cocaine. Modified Graefe. Normal operation and recovery. 12 days.	V. = 0.2.
164	Female. 62 Amer. Fair.	Sequelæ to glaucoma. 6 months. No project. Has had iridectomy, o. d. for glaucoma six months ago. T. = N.	Nov. 26, 1894. Cocaine. Lens adherent and removed with difficulty. Considerable cortical left. Bandage omitted second day. Dec. 16, cortical partly absorbed, vision much improved. 21 days.	V. = $\frac{1}{25}$.
165	Male. 24 Amer. Good.	Congenital. Iridectomy done 14 years ago. Counts fingers at 30 cm.	Dec. 6, 1894. Cocaine. Discission with needle. Lens thoroughly broken up. Much pain after operation. Lens swollen and apparently dislocated. Jan. 18, 1895, secondary operation. Suction capsule present. Feb. 4, 1895, secondary.	V. = 0.5.
166	Male. 18 Amer. Good.	Traumatic. Nearly 7 years. Good.	Jan. 15, 1895. Cocaine. Simple extraction. Suction operation begun. On entrance of point of knife, the whole lens substance, which proved to be liquid, escaped from wound, leaving pupil clear. Piece of cortical under iris which could not be gotten out. Bandage omitted Jan. 17. Feb. 3, floating opacities and extensive separation of retina. 22 days.	V. = shadows.
167	Male. 50 Scotl'nd Good.	Traumatic. 6 months. Good.	Jan. 17. Cocaine. Modified Graefe. Normal. Bandage omitted Jan. 24. 20 days.	V. = 0.5.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
168	Male. 41 Amer. Good.	Traumatic. Anterior chamber full of soft cortical. Good.	Jan. 21, 1895. Cocaine. Suction. Jan. 22, monocular bandage. Anterior chamber formed. 11 days.	V. = 0.8.
169	Female. 33 Irish. Good.	Cat. secondary to sympathetic inflammation. Iritic adhesions. Complicated case. Phthisis bulbi, o. d. Struck with ball 2 years ago. Probable rupture of globe. Good.	Jan. 23, 1895. Cocaine. Modified Graefe. Patient behaved badly. Bandage omitted on fifth day. Slight hemorrhage in anterior chamber. July 13, secondary. 47 days.	V. =quantitative.
170	Male. 15 Amer. Good.	Traumatic. 3 months. Good.	Jan. 28, 1895. Discission. Bandage omitted second day. Feb. 5, secondary discission. Feb. 28, suction operation. All cortical removed and operation completed without incident. 43 days.	V. =quantitative.
171	Male. 12 Russia. Good.	Secondary extraction 2 years duration.	Jan. 31, 1895. Cocaine. Capsule incised and torn with knife. Bandage removed third day. 20 days.	V. = 0.1.
172	Male. 33 Amer. Good.	Traumatic. 8 months. Good.	March 5, 1895. Cocaine. Modified Graefe. Normal. Bandage omitted on seventh day. One posterior synechia. 15 days.	V. = 1.00—.
173	Female. 50 Amer. Good.	Capsule extraction. Good.	March 6, 1895. Cocaine. Secondary recovery normal. March 13, secondary. 40 days.	V. = 0.2.
174	Male. 22 Amer. Good.	Traumatic. 8 months. Good.	March 6, 1895. Cocaine. Discission. April 23, second discission. Bandage omitted on second day. 6 days.	V. = 0.1.
175	Male. 43 Nova Scotia. Good.	Traumatic. 4 months. Good.	March 7, 1895. Cocaine. Simple extraction. Normal. Bandage removed on fourth day. Anterior synechia. Some opaque capsule. 27 days.	V. 1.00—.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Function Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
176	Male. 32 Amer. Good.	Following Iritis. 6 years. Good.	March 8, 1895. Cocaine. Modified Graefe. Normal. March 15, monocular bandage. Iris bound down by adhesions before operation. 18 days.	V. = 0.2.
177	Male. 2 years. Amer. Good.	Congenital. 2 years.	April 8, 1895. Ether. Discission. Needle operation. Lens well broken up. A small piece of cortical in anterior chamber. 8 days.	V. could not be taken.
178	Male. 23 Amer. Good.	Traumatic. 6 years ago struck with snowball. Operation for cataract 4 years ago.	June 20, 1895. Cocaine. Modified Graefe. Normal operation. Bandage omitted on seventh day. Iritis, July 10. 25 days.	V. = 0.1.
179	Male. 2 Fair. Idiot.	Congenital.	June 29, 1895. Ether. Discission. Bandage omitted on third day. July 19, discission. Aug. 3, discission. 24 days.	V. not taken.
180	Male. 46 German. Good.	Traumatic. 20 years. No known cause. Good.	July 3, 1895. Cocaine. Discission. Very little cortical. Bandage removed on second day. Lens absorbing. July 11, discission. July 20, discission. 20 days.	
181	Male. 18 Engl'nd. Good.	Traumatic. 16 years. Good.	July 3, 1895. Cocaine. Discission. Considerable cortical. Bandage omitted on seventh day. July 20, discission. Aug. 8, capsule removed with forceps through small incision below. 20 days.	V. = 0.1.
182	Male. 23 Amer. Good.	Traumatic. 20 years. Good.	July 3, 1895. Cocaine. Buttonhole extraction. After cut, iris showed tendency to prolapse. Small nucleus. Bandage omitted on fourth day. Hemorrhage into anterior chamber. 17 days.	V. = 0.6.
183	Male. 19 Amer. Good.	Traumatic. 6 months.	July 10, 1895. Cocaine. Suction. July 14, patient hit his eye. Considerable pain. Congestion and chemosis. Cornea hazy. July 27, patient went home against advice. Vision could not be taken. 18 days.	

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
184	Male. 63 Amer. Good.	Mature senile possibly. Traumatic. 19 years. Good.	July 24, 1895. Cocaine. Simple extraction. Considerable fluid vitreous followed the lens. Bandage omitted on sixth day. Pupil well dilated and drawn upwards and outward towards wound.	V. = 0.6.
185	Male. 18 Good. Amer.	Traumatic. 5 years. Good.	Aug. 5, 1895. Cocaine. Modified Graefe. Calcareous capsule left in pupil. Bandage omitted on eight day. Central capsule remaining. 11 days.	V. = 0.1—.
186	Female. 6 Amer. Good. Idiotic.	Congenital. Doubtful.	Aug. 10, 1895. Ether. Discission. Patient continually pulled off bandage, so it was omitted. Discission Aug. 21. Sept. 27, capsule split with scissors.	
187	Female. 3 Good.	Congenital.	Aug. 12, 1895. Ether. Discission. Considerable soft cortical. 15 days.	V.= shadows.
188	Male. 18 Amer. Good.	Traumatic. 7 yrs. ago injury by explosion of gun powder. Two grains of powder imbedded in cornea. An iritic adhesion. Good.	Aug. 14, 1895. Cocaine. Discission. Iritic adhesion divided during operation. Considerable soft cortical filling anterior chamber. Aug. 18, cortical mostly absorbed. Some capsule, one posterior adhesion. 8 days.	V.= shadows.
189	Male. 9 Amer. Good.	Congenital. Good.	Aug. 15, 1895. Cocaine. Discission. Discission with extraction of whole posterior capsule with forceps. Bandage omitted on third day. Anterior chamber re-established. No congestion. Fundus not clearly seen. Webs in vitreous. Separation retina(?) 10 days.	V. = shadows.

EAR DEPARTMENT.

The Board of Aural Surgeons respectfully present the following report as representing the work done in this department during the year ending Sept. 30, 1895 : —

A comparison of the work of the Aural Department in the first year of the occupation of the present building shows the number of new patients in 1891 to have been 4,578, and of house patients to have been 120, while in the past year the new patients numbered 4,946, and the house patients 248 ; the value of the house service provided in the present building being shown by the increased demand upon it.

That the out-patient clinic has outgrown the accommodations which five years ago were ample, may be justly taken as an evidence of its increased efficiency, this being shown less by the increase in the number of new patients than by the improvement in the results of the clinical work, which has fairly kept pace with that elsewhere. This improvement implies a larger demand upon the clinical accommodation, and in order adequately to meet this, there is necessary at some time in the near future, not only a larger clinic room but also a room for hearing tests, a room for clinical instruction, and in addition a room for minor operations upon out-patients, which would leave the operating room proper free for its legitimate purpose — those operations of a more serious character for which patients are taken into the house.

CLARENCE J. BLAKE, M. D.,

For the Board of Aural Surgeons.

DISEASES OF OUT PATIENTS, EAR DEPARTMENT.

Oct. 1, 1894, to Oct. 1, 1895.

I. Morbi Auris Externæ.

1. Auriculæ.

a. *Inflammationes.*

	A.D.	A.U.	A.S.
Abscessus conchæ	1	0	0
" lobulæ	0	0	2
Dermatitis erysipelatosa	1	0	0
Eczema acutum	8	13	10
Herpes zoster	5	0	1
Intertrigo	4	2	2
Hæmatoma	1	0	1

b. *Deformitates.*

Microtia	1	0	0

c. *Neoplasmata.*

Angioma	0	0	1
Cystis lobulæ	5	0	4

2. Meatus-cutis.

a. *Anomaliæ Secretionum.*

Accumulatio ceruminis	285	423	349

b. *Inflammationes.*

Abscessus	4	0	1
Eczema	14	25	13
Otitis externa desquamativa	1	3	1
" " diffusa acuta	21	17	22
" " " chronica	13	17	15
" " follicularis	52	1	52
" " parasitica	0	1	1
Corpus adventitium animale	5	0	3
" " inanimale	16	3	15
Pruritus	1	3	0

c. *Neoplasmata.*

	A.D.	A.U.	A.S.
Carcinoma	1	0	0
Papilloma	0	0	3

d. *Deformitates.*

Atresia acquisita	1	0	1

MEATUS-OSSIS.

Exostosis circumscripta	0	0	1
Osteoma	1	0	0

II. MORBI AURIS MEDIÆ.

1. MEMBRANÆ TYMPANI.

Trauma directum	5	1	3
" indirectum	6	0	5

2. TYMPANI, TUBÆ EUSTACHII, ET PORTIONIS MASTOIDEÆ.

a. *Otitis Catarrhalis Secernens.*

Otitis catarrhalis secernens mucosa acuta	41	74	66
Otitis catarrhalis secernens mucosa acuta cum hyperplasia tonsillæ pharyngeæ	0	37	0
Otitis catarrhalis secernens mucosa chronica	67	248	65
Otitis catarrhalis secernens mucosa chronica cum hyperplasia tonsillæ pharyngeæ	0	18	0
Otitis catarrhalis mucosa chronica	74	265	100
Otitis catarrhalis mucosa chronica cum hyperplasia tonsillæ pharyngeæ	0	16	0

b. *Otitis Catarrhalis Adhæsiva.*

Otitis catarrhalis adhæsiva ex secernente	28	115	23
Otitis catarrhalis adhæsiva ex secernente cum hyperplasia tonsillæ pharyngeæ	0	4	0
Otitis catarrhalis adhæsiva insidiosa	46	186	51
Otitis catarrhalis adhæsiva insidiosa cum morbo labyrinthi	2	3	4

c. *Otitis Media Acuta.*

Otitis media acuta simplex	254	94	239
" " " cum bulla	2	1	1
Otitis media acuta " hyperplasia tonsillæ pharyngeæ	2	3	0

	A.D.	A.U.	A.S.
Otitis media acuta cum ostitide mastoidea	9	0	9
" " " " paralyse nervi facialis . . .	1	0	1

d. *Otitis Media Suppurativa.*

Otitis media suppurativa acuta	91	33	70
" " " " cum carie mastoidea .	3	0	6
Otitis media suppurativa acuta cum hyperplasia tonsillæ pharyngeæ	1	0	0
Otitis media suppurativa acuta cum meningitide . .	1	0	0
" " " " " ostitide mastoidea	11	1	22
" " " chronica	297	148	287
Otitis media suppurativa chronica cum abscessu supra auriculam	1	0	0
Otitis media suppurativa chronica cum carie meatus .	0	0	1
Otitis media suppurativa chronica cum carie ossiculorum	7	1	8
Otitis media suppurativa chronica cum granulatione tympani	24	3	25
Otitis media suppurativa chronica cum hyperplasia tonsillæ pharyngeæ	1	3	0
Otitis media suppurativa chronica cum ostitide mastoidea	1	0	0
Otitis media suppurativa chronica cum polypo tympani	32	1	27
Effectus otitidis mediæ suppurativæ	140	181	157
Effectus otitidis mediæ suppurativæ cum hyperplasia tonsillæ pharyngeæ	0	6	0
Surditas senilis	0	8	0

3. Neuroses Auris Mediæ.

Otalgia dentalis	26	9	38
" hysterica	0	0	1
" nasalis	3	1	2
" neuralgica	14	4	17
" pharyngealis	2	0	2

III. Morbi Labyrinthi et Acustici.

Concussio ex fractura calvariæ	1	0	0
" " ictu aërio	2	1	1
Cochlitis	0	1	0
Labyrinthitis acuta	2	4	3
" chronica	2	1	0
Morbus acustici	0	3	0

	A.D.	A.U.	A.S.
Hyperæsthesia acustici	1	3	0
Panotitis	1	5	0
Propriæ notæ Ménière	1	23	5
Trauma labyrinthi	1	0	1

Miscellanous.

Eloped	21
No diagnosis	36
No ear disease	75
Unfit patients	141

Morbi et Operationes.

Abscessus, post auriculam	1	0	3
Cervix, abscessus, incisio	0	0	1
Concha, " "	1	0	0
Lobula, " "	0	0	3
" cystis, remotio	2	0	2
Meatus, abscessus, incisio	4	0	5
" granulatio, remotio	1	0	0
" osteoma, "	1	0	0
" otitis externa diffusa	0	0	1
" " " follicularis	19	0	24
" papilloma, remotio	0	0	1
" polypus, remotio	5	0	0
Membrana tympani, bulla, incisio	3	0	1
" " paracentesis	149	9	121
Mastoidea, ostitis, apertio	1	0	1
" necrosis, remotio	32	1	42
Nasus, polypus, remotio	6	0	8
" septum, exostosis, remotio	5	0	3
Nasus et pharynx, hyperplasia tonsillæ pharyngeæ, remotio		91	
Ossicula, ankylosis, remotio	0	0	1
" " mobilizatio	3	0	7
" necrosis, remotio	14	0	17
Synæctomia	0	0	1
Tonsilla, remotio	0	3	0
Tragus, cystis, remotio	1	0	0
Tympanum, granulatio, remotio	2	0	2
" necrosis, remotio	1	0	0
" polypus, "	67	2	58
Summa		726	

DISEASES OF HOUSE PATIENTS, EAR DEPARTMENT.

Oct. 1, 1894, to Oct. 1, 1895.

I. Morbi Auris Externæ.

a. *Auriculæ.*

	A.D.	A.U.	A.S.
Abscessus conchæ	0	0	1
Cystis conchæ	0	0	1

b. *Meatus.*

Atresia	0	1	1
Osteoma	1	0	0
Otitis externa diffusa	1	0	1
" " follicularis	3	2	2

II. Morbi Auris Mediæ.

Otitis catarrhalis adhæsiva ex secernente	0	3	1
Otitis catarrhalis adhæsiva ex secernente cum hyperplasia tonsillæ pharyngeæ	0	1	0
Otitis catarrhalis adhæsiva insidiosa	0	2	1
" " mucosa chronica	0	2	0
Otitis catarrhalis mucosa chronica cum hyperplasia tonsillæ pharyngeæ	0	1	0
Otitis catarrhalis secernens serosa acuta cum hyperplasia tonsillæ pharyngeæ	0	1	0
Otitis media acuta simplex	8	2	7
" " " cum ostitide mastoidea	15	0	2
" " " " paralyse nervi facialis	0	0	1
" " suppurativa acuta	1	4	2
Otitis media suppurativa acuta cum abscessu post auriculam	1	0	1
Otitis media suppurativa acuta cum abscessu supra auriculam	1	0	0
Otitis media suppurativa acuta cum ostitide mastoidea	3	0	11
" " " " " carie "	14	1	26
Otitis media suppurativa acuta cum carie mastoidea et meningitide	1	0	1

	A.D.	A.U.	A.S.
Otitis media suppurativa acuta cum periostitide meatus	0	0	1
" " " " " polypo meatus . .	1	0	0
Otitis media suppurativa chronica	2	1	2
" " " " cum atresia meatus	1	0	1
" " " " " carie mastoidea	20	1	18
" " " " " " meatus .	1	0	0
Otitis media suppurativa chronica cum carie ossiculorum	15	3	13
Otitis media suppurativa chronica cum carie ossis temporalis	0	1	0
Otitis media suppurativa chronica cum carie ossis temporalis et abscessu cervicis	0	0	1
Otitis media suppurativa chronica cum carie tympani	1	0	1
Otitis media suppurativa chronica cum granulatione tympani	3	0	2
Otitis media suppurativa chronica cum ostitide mastoidea	0	0	1
Otitis media suppurativa chronica cum polypo tympani	1	0	4
Effectus otitidis mediæ suppurativæ	1	2	4
Effectus otitidis mediæ suppurativæ cum ostitide mastoidea	0	0	1

Neuroses Auris Mediæ.

Otalgia neuralgica	0	0	1

Morbi Labyrinthi et Acustici.

Panotitis scarlatinosa	0	1	0
Propriæ notæ Ménière	0	1	0

Number of House Patients.

Male	128
Female	120
Total	248

EAR PATIENTS.

STATISTICS — OCT. 1, 1894, TO OCT. 1, 1895.

MALES.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Total.
Birth to 3 years,	6	7	10	7	9	17	6	15	19	17	9	5	127
3 years to 15 years	40	22	25	48	29	41	56	42	43	50	49	37	482
15 " " 25 "	44	51	37	39	37	60	56	45	44	64	70	41	588
25 " " 35 "	41	40	42	48	41	76	45	65	50	69	65	62	644
35 " " 45 "	28	27	24	28	38	39	30	46	35	49	45	20	409
45 " " 55 "	21	9	18	17	19	23	29	28	17	26	31	26	264
55 " " 65 "	19	11	11	15	8	22	20	20	16	24	22	17	205
65 " " 75 "	6	6	7	6	8	11	11	8	17	8	9	5	102
75 " " 85 "	3	3	1	3	2	2	3	0	3	4	5	2	31
85 " " 95 "	0	0	0	0	0	0	0	0	0	0	0	0	0
Unrecorded,	0	0	0	0	0	0	0	0	0	0	1	0	1
													2,853

FEMALES.

Birth to 3 years,	6	6	4	10	8	6	22	10	6	8	2	8	96
3 years to 15 years	39	20	26	35	35	39	42	53	42	35	31	18	415
15 " " 25 "	46	35	20	38	48	47	33	55	40	46	54	44	506
25 " " 35 "	38	29	19	39	32	33	37	41	42	48	52	47	457
35 " " 45 "	24	13	18	21	17	23	33	26	23	40	24	24	286
45 " " 55 "	16	7	6	8	4	11	21	19	20	22	17	22	173
55 " " 65 "	8	4	3	7	4	7	10	13	8	15	14	12	105
65 " " 75 "	1	3	3	0	3	4	1	2	8	8	5	5	43
75 " " 85 "	1	2	0	0	0	0	1	0	1	1	1	4	11
85 " " 95 "	0	0	0	0	0	0	0	0	0	1	0	0	1
													2,093

RESIDENCES.

Boston,	168	149	135	202	164	243	212	249	189	256	226	190	2,383
Massachusetts,	207	136	130	161	174	214	233	227	239	261	262	200	2,444
Maine,	3	3	1	1	2	0	5	3	2	5	4	1	30
New Hampshire,	4	7	5	4	2	4	4	3	2	7	2	5	49
Vermont,	1	0	1	0	0	0	0	1	1	2	1	1	8
Rhode Island,	1	0	1	0	0	0	0	1	1	0	2	0	6
Connecticut,	1	0	0	0	0	0	0	1	0	1	1	0	4
Other States,	0	0	0	0	0	0	1	1	0	2	7	0	11
British Provinces,	2	0	1	1	0	0	1	2	0	1	1	2	11

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Total.
New patients,	387	295	274	369	342	461	456	488	434	535	506	399	4,946
Old "	1,908	1,915	1,827	1,950	1,559	1,978	1,880	1,989	1,628	1,684	1,718	1,774	21,810
Total,	2,295	2,210	2,101	2,319	1,901	2,439	2,336	2,477	2,062	2,219	2,224	2,173	26,756

Working days	305	Average number of new patients daily .	15
Number of Sundays	52	" " " old " " .	71
Number of holidays	8	Total average, daily	86

Occupation of Ear Patients.

Agents	16
Bakers	11
Barbers	14
Blacksmiths	41
Bookkeepers	32
Carpenters	108
Children	363
Clergymen	8
Clerks	249
Cigar makers	14
Cooks	32
Dressmakers	41
Dentists	2
Domestics	357
Drivers	27
Engineers	35
Electricians	16
Farmers	45
Firemen	26
Factory hands	170
Fishermen	6
Hatters	1
Home	759
Hostlers	13
Laborers	483
Leather workers	31
Laundresses	17
Masons	24
Mariners	28
Mechanics	66
Machinists	71
Messengers	15
Metal workers	78

Milliners	9
Mill operatives	62
Musicians	9
Nurses	29
Painters	42
Policemen	9
Porters	25
Printers	36
Plumbers	15
Railroad	63
Rubber workers	34
Seamstresses	80
Shoemakers	97
Soldiers	1
Students	26
School	735
Stonecutters	29
Tailors	82
Teachers	25
Teamsters	99
Waiters	42
Wood workers	66
Other occupations	131
Unrecorded	1

SEVENTY-FIRST

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1896.

A WAITING ROOM IN THE OUT-PATIENT DEPARTMENT.

SEVENTY-FIRST

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1896.

BOSTON:
PRESS OF ALFRED MUDGE & SON,
No. 24 Franklin Street.
1897.

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REPORT OF THE BOARD OF MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary,

THE MANAGERS HEREWITH PRESENT THEIR ANNUAL REPORT FOR THE YEAR ENDING SEPTEMBER 30, 1896.

The Massachusetts Charitable Eye and Ear Infirmary was incorporated in 1827 for the purpose of gratuitously treating diseases of the eye and ear.

It is the second oldest hospital in New England.

Ever since it was founded it has afforded the best of treatment to poor people who, without its aid, would have been unable to earn their livelihood.

The work has constantly increased year by year as the population in the City, State, and other New England States, all of which furnished patients, has increased.

The usefulness of the Infirmary, since the erection of its present building in 1849, has been a growing one. The following statistics of the number of patients treated will be of interest, and as these figures only represent individuals, the numbers should be multiplied by three or four to show the actual attendance of persons, old and new, out-patients and house-patients, who pass through the various departments in a year: —

Year.	Number of Patients.
1849	2,002
1854	2,281
1867	2,580

Year.	Number of Patients.
1872	5,975
1877	9,087
1885	11,689
1890	15,289
1895	19,150
1896	20,904

The present building was built nearly fifty years ago. It is an old, patched building, entirely inadequate to meet the demands of the community, and it does not provide the necessary facilities for proper modern treatment.

The situation is no longer good, as the street has become a noisy thoroughfare.

The Medical and Surgical Board unanimously reported to the Managers last year, that the hospital building was entirely insufficient to meet the proper requirements of the institution, or the conditions that should prevail in a well-managed hospital; that it was badly ventilated; there were no facilities for isolation, and there was, therefore, great danger of infection. "The great increase in the work, in recent years, has rendered the present space entirely inadequate."

The staff also said of these existent conditions that "the enthusiasm and interest of the surgeons are necessarily diminished, and the feeling that the work cannot be properly done tends to its being done even less well than the actual circumstances might admit."

After a careful consideration and examination, the Managers became satisfied that a new hospital was a necessity.

They found that they could buy some land that was well adapted to the needs of the hospital, upon North Charles Street, adjoining the grounds of the Massachusetts General Hospital.

They presented the needs of the institution to the Legisla-

ture last winter and secured an appropriation of one hundred thousand dollars, fifty thousand dollars of which was paid last year, and the balance will be paid this.

The land cost eighty-two thousand and five hundred dollars, and the estimated cost of building and equipping a suitable hospital is one hundred and seventy-five thousand dollars.

Under the terms of the resolve appropriating the money, the building must be completed by 1901.

The balance of the money needed to build the hospital must be raised by subscription. Already three benefactors have given five thousand dollars each towards the necessary fund, and the Managers most earnestly solicit subscriptions, for this purpose.

The educational value of the Massachusetts Charitable Eye and Ear Infirmary cannot be overestimated.

From the standpoint of not only the number of patients treated, but the character and importance of the operations, it is one of the largest, if not the largest, hospital for diseases of the eye and ear in the United States.

The Surgical Staff is composed of specialists of national reputation. The value of their work, both in the treatment of patients and in the instruction of students, cannot therefore be overestimated. They serve entirely without pay.

It is the source of medical education for diseases of the eye and ear for the doctors and medical students of New England. There are daily clinics for students in its wards, and every community where these students practise their profession receives a benefit. The institution also educates its House Officers as specialists in diseases of the eye and ear, each receiving a two-years training. It is also educating Nurses who are carefully trained and made thoroughly familiar with the delicate manipulations and dressings necessary in

ophthalmic and aural diseases. This is of great benefit to the community.

Within the past two years, under the skilful management of the Superintendent, Dr. Farrar Cobb, the hospital has been put upon a modern basis, as far as was possible in the present building.

A Training School for Nurses has been started and is in successful operation.

The work of the hospital has increased very largely in the past year. The daily average number of house-patients treated in the wards was seventy-five, or fourteen more than the year before. This of course added very largely to the expense of the hospital.

Eleven hundred and ninety-seven patients were treated in the wards, and 20,904 new patients were treated in the out-patient department; the total number of out-patients treated was, 61,479.

These patients were all poor, and came from all parts of Massachusetts, and also from other States.

During the greater part of the year the wards of the hospital were so crowded that many deserving patients had to be turned away, and refused admittance from lack of room.

Owing to this unprecedented increase in the number of patients who needed treatment, the expense of the hospital has necessarily increased.

The expenses for the past year were $10,000, in excess of the receipts, and this in spite of the most economical management compatible with proper treatment.

This deficiency must be met by subscription, or the work of the hospital will have to be curtailed.

The entire cost of running the hospital, including attendants, nurses, and expenses of every description, for both

house-patients and out-patients was only $12.67 a week for each house-patient.

If the out-patients were included with the house-patients, the weekly expense for each new patient treated would be about $3.36.

J. COLLINS WARREN,
WILLIAM D. SOHIER,
For the Board of Managers.

REPORT OF THE TREASURER

OF THE

Massachusetts Charitable Eye and Ear Infirmary,

FOR THE YEAR ENDING SEPT. 30, 1896.

INCOME.

RECEIPTS.

Income from Investments		$8,852 04
Income from Trustees of the will of E. V. Ashton		1,000 00
Donation from the State of Massachusetts		20,000 00
Rebate Bank Tax		414 54
Rent corner Charles and Fruit Streets		165 20
From Superintendent per his Report:		
Board of Patients	$2,848 72	
Optician's Account	4,676 75	
Medicines	4,063 25	
Sundries	421 39	
		12,010 11
		$42,441 89
Excess of Expenditures over Receipts		10,114 71
		$52,556 60

EXPENDITURES.

Paid to Superintendent for Running Expenses of the Hospital as per his Report	$50,345 64

($500 Cash Balance on hand Sept. 30, 1896.)

ADDITIONAL EXPENSES AS PER ACCOUNT OF TREASURER.

Balance from last year's Account (deficit preceding years)	$1,055 50	
Pittsfield Visits	207 00	
Annuities	300 00	
Sundries	81 00	
Insurance	119 77	
Printing and Petties	447 69	
		2,210 96
		$52,556 60

REPORT OF THE SUPERINTENDENT

For the Year ending September 30, 1896.

To the Board of Managers of the Massachusetts Charitable Eye and Ear Infirmary.

Gentlemen: — The work of the infirmary has increased greatly during the last year. The number of house and out-patients is much in excess of past years.

The reorganization in the system of nursing and care of patients is almost complete.

STATISTICS OF HOUSE-PATIENTS.

The number of patients treated in the wards was 1,197.

Of the 1,197 house-patients, 695 were males, and 502 females.

Patients treated in Ophthalmic wards . . .	912
Patients treated in Aural wards	285

Of the total number, 270 were children under 14 years.

Daily average of patients in wards in 1896 was 75;

Daily average of patients in wards in 1895 was 61;

showing a daily average increase of 14 throughout the year. Largest number of house-patients at any one time in 1896 was 95.

Free patients admitted	847
Paying patients at $6 a week	99
Paying patients at less than $6 a week . .	251

The average stay per patient in the hospital was 22½ days, a reduction from length of treatment per individual in former years of 9 days; for example, in the years 1894 and 1895 the average stay of house-patients was 31 days.

RESIDENCE OF HOUSE-PATIENTS.

Boston	434	Rhode Island	3
Massachusetts (excepting Boston)	695	Connecticut	3
Maine	6	Other States	11
New Hampshire	37	British Provinces	5
Vermont	3		1,197

OCCUPATIONS OF HOUSE-PATIENTS.

MALES.

Agents	5	Musician	1
Attendants	2	No occupation given	10
Barbers	4	Overseers	2
Blacksmiths	11	Painters	14
Clerks	17	Peddlers	6
Clergymen	3	Printers	10
Carpenters	31	Plumbers	8
Coachmen and Hostlers	4	Railroad Employees	5
Draughtsman	1	Seamen	14
Engraver	1	Shoemakers	19
Engineer	1	Stone-masons	9
Firemen	10	Stone-cutters	15
Fishermen	8	Students	3
Farmers	45	Teamsters	18
Ironworkers and Moulders	10	Other Occupations	28
Laborers	160	Children	153
Mill and Factory Operatives	49		695
Machinists	18		

FEMALES.

Attendants	1	No occupation given	40
Clerks	2	Seamstresses	9
Domestics	89	Students	1
Dressmakers	2	Telegraph Operator	1
Housewives	135	Teachers	3
Housekeepers	5	Children	174
Mill and Factory Operatives	26		502
Milliners	3		
Nurses	11		

CONDITION OF HOUSE-PATIENTS AT DISCHARGE.

330 were well.
692 were relieved.
51 were not relieved.
25 left against advice.
5 were transferred to other hospitals.
4 eloped.
11 died.
79 remaining in the hospital, September 30, 1896.

NUMBER OF OPERATIONS.

In the Ophthalmic division there were 725 operations.
In the Aural division there were 189 operations.

OUT-PATIENT DEPARTMENT.

NEW PATIENTS TREATED,

Ophthalmic: Males		7,975	
Females		7,384	
			15,359
Aural: Males		3,171	
Females		2,374	
			5,545
Total			20,904

This is an increase of 1,155 in the Ophthalmic division, and of 599 in the Aural.

Number of old patients treated in the Out-Patient Departments, was:—

Ophthalmic	22,083
Aural	19,492
Total	40,575

Total attendance in Out-Patient Clinics	61,479
Ophthalmic operations (out-patients)	1,197
Aural operations (out-patients)	585
Total operations	1,782

RESIDENCE OF OUT-PATIENTS.

Boston	10,786	Connecticut	9
Massachusetts (excepting Boston)	9,728	Other States	46
Maine	112	British Provinces	5
New Hampshire	171		
Vermont	23	Total	20,904
Rhode Island	24		

OCCUPATION OF OUT-PATIENTS.

Agents	128	Metal workers	94
Artists	14	Musicians	25
Bakers	42	Nurses	106
Barbers	87	Painters	158
Blacksmiths	223	Peddlers	80
Book-binders	38	Porters	14
Book-keepers	151	Pensioners	17
Butchers	41	Photographers	8
Carpenters	391	Physicians	6
Clergymen	23	Plumbers	124
Clerks	1,015	Police, etc.	20
Coachmen and Hostlers	108	Railroad Employees	334
Compositors and Printers	156	Sailors	124
Domestics	1,741	Seamstresses	570
Electricians	53	Shoemakers	240
Engineers	103	Stenographers	43
Engravers	3	Stone-cutters	239
Farmers	187	Store-keepers	64
Firemen	75	Students	201
Fishermen	39	Tailors	221
Hotel-keepers	22	Teachers	100
Housewives	3,261	Teamsters	353
Laborers	1,843	Telegraph and Telephone operators	15
Leather workers	22	Waiters	128
Masons	120	Wood workers	192
Messengers	52	Other occupations	362
Mechanics	71	Children	6,282
Machinists	523		
Milliners	42	Total,	20,904
Mill and Factory hands	1,512		
Moulders	45		

EXPENSES.

The total expenditure by the Superintendent has been $49,845.64, which is analyzed as follows:

Provisions		$11,051 64
Wines and liquors		151 50
Water rates		855 60
(Cost of Hydraulic elevator included which equalled one third, or	$285 20)	
Gas and Oil		1,188 05
Of this,		
Gas	$1,104 80	
Kerosene	5 00	
Lubricating oil	78 25	
Ice		579 41
Wages		18,973 20
Officers (Superintendent, Matron, Druggist, House Officers)	3,171 00	
Attendants, male	2,981 00	
Porters and general man	689 15	
Night watchman	224 01	
Engineer	925 45	
Night Engineer	436 04	
Trained Nurses	3,200 00	
Untrained Nurses	1,398 34	
Kitchen Department	1,294 57	
Laundry "	700 00	
General Women	2,180 76	
Sewing Room	240 00	
Clinical, Clerks and Office Help	1,522 88	
Fuel		2,756 22
Medicines and cost of Drug Store		2,473 33
Stationery and Printing		913 37
Optical and Surgical Instruments and Supplies		3,701 99
Of this,		
Cost of Optical Department	3,346 65	
Surgical and Optical Instruments	355 34	

Repairs		$2,300 38
Of this,		
Mattresses, Carpets, etc.	$328 21	
Kitchen and Laundry	116 05	
Steam Plant	244 28	
Electric Bells, Locks, etc.	58 22	
Mason work	86 86	
Painting and Glazing	97 31	
Plumbing, etc.	812 80	
Carpentering	556 65	
Furnishings and Supplies		$3,185 77
Of this,		
Soap	272 81	
Linen Room	887 47	
Office, Ward, and Nurses' Furniture	364 44	
General Supplies	1,070 66	
Laundry Engine, etc.	124 00	
Bacteriological Laboratory Furnishings and Supplies	138 95	
Paints, Oils, and Varnishes	131 44	
Uniforms	196 00	

(Out of this a general store-room has been equipped and catalogued, and on September 30, 1896, had stock on hand to the value of $400.00.)

Contingent and Sundries		$1,715 18
Of this,		
Telephone bills	$139 67	
Rent of Rooms for Attendants	289 50	
Contingent Repairs	49 90	
Library Funds	124 64	
Advertising	166 95	
Watering street and care of grounds	45 00	
General contingent and sundries	899 52	

RECEIPTS.

The receipts through the Superintendent have been larger than ever before.

Board of patients	$2,848 72
Drug Department	4,063 25
Optical "	4,676 75
Sundries, "	421 39
Total of	$12,010 11

Which is an increase of $2,590.42 over 1895.

STATEMENT OF PER CAPITA EXPENSE.

From the following brief statement of per capita expense per house-patient per week, it will be seen that, notwithstanding the increased gross expenditure, the actual work done has been so increased that the per capita expense this year is but a few cents larger than in 1895.

The estimates have been made entirely on the daily average of house cases, carrying the large out-patient department as a source of no expense.

In 1895 the daily average of patients was 61; the Superintendent's expenditure, $38,593.75; the per capita expense per week, $12.18.

In 1896 the daily average patients was 75; the Superintendent's expenditure, $49,845.64; the per capita expense per week, $12.67.

TRAINING SCHOOL FOR NURSES.

It remains briefly to mention the Graduate School for Nurses. Ignoring the educational side of the question, which the report of the Surgeons has touched upon at some length, it is gratifying to note the success from a utilitarian standpoint.

During the year sixteen graduate nurses have taken the four months' course. Nine have graduated; six are still in the school; one failed to graduate.

Three graduates have accepted permanent positions as head nurses.

Lectures in the regular courses have been given by members of the staff each week, and at intervals by the Superintendent.

At present there is a long list of applicants for vacancies in the school.

There has been a daily average number of eighteen, including head nurses, pupil nurses, and attendant nurses (untrained). This is an average of one nurse to every four or five house-patients; but five nurses are daily used in the out-patient clinics, thereby saving male attendants.

I take pleasure in expressing my obligations to the Matron, by her cheerful co-operation and earnest work much has been accomplished.

All of which is respectfully submitted.

FARRAR COBB, M. D.,
Superintendent.

A CORNER IN THE CHILDREN'S WARD.

REPORT OF THE FULL BOARD OF SURGEONS.

THE SURGEONS OF THE INFIRMARY HEREWITH RESPECTFULLY SUBMIT THEIR REPORT FOR THE YEAR ENDING SEPTEMBER 30, 1896.

The whole number of new patients applying for treatment in the two out-patient departments was: —

	1895-96.	1894-95.
Eye Patients	15,359	14,204
Ear Patients	5,545	4,946
Total	20,904	19,150

The whole number of house-patients was: —

	1895-96.	1894-95.
Eye Patients	912	782
Ear Patients	285	248
Total	1,197	1,030

Notwithstanding the number of patients has increased, the work of the Infirmary has gone on without interruption and with increased satisfaction to the Board, owing largely to the active and efficient co-operation of the Superintendent of the Infirmary, and of the Superintendent of Nurses. The Training School for Nurses has begun auspiciously and bids fair to be of great service, not only to the institution in giving it the highest class of nursing, but to the community at large in supplying nurses thoroughly familiar with the delicate manipulations and dressings necessary in Ophthalmic and Aural diseases.

The Surgeons desire to express thanks to the Assistant Surgeons, Clinical Assistants, and House Officers, for their earnest and satisfactory work, and their appreciation of the faithful service rendered by the Nurses of both departments.

J. ORNE GREEN, M. D.,
FREDERICK E. CHENEY, M. D.,
For the Full Board of Surgeons.

REPORT OF OPHTHALMIC SURGEONS.

DISEASES OF HOUSE-PATIENTS.

Lids.

Abscess	2
Blepharitis	8
Burns	7
Chalazion	1
Cysts	2
Ectropion	1
Eczema	1
Entropion	6
Epithelioma	6
Lagophthalmus	2
Carcinoma	2
Nævus	2
Ptosis	1
Symblepharon	3
Trichiasis	7
Tumors	2
Wounds	2
	55

Lachrymal Apparatus.

Abscess	5

Conjunctiva.

Burns	3
Conjunctivitis, Simple	1
Catarrhal Acute	3
Catarrhal Chronic	1
Diphtheritic	3
Gonorrhœal	24
Granular	14
Granular with Pannus	35
Muco-purulent	1
Cut	1
Epithelioma	1
Ophthalmia Neonatorum	15
Pterygium	8
Tumors	2
	117

Cornea.

Abscess	3
Burn	11
Foreign body	2
Keratitis, Bullous	1
" Interstitial	14
" Phlyctenular	39
" Traumatic	1
" Ulcerative	13
" Vascular	2
Kerato-Iritis	1
Epithelioma of Cornea and Conjunctiva	1
Leucoma, partial	20
" Total	7
" Adherens	2
" Inflamed	4
Nebulæ	1
Rupture	2
Kerato-scleritis	5
Staphyloma, partial	4
" Total	8
Tumor	1
Ulcers	79
" with Hypopion	22
" Fascicular	4
" Serpiginous	7
" Traumatic	3
Wounds	33
Wound of Cornea and Ciliary Region	4
	294

Sclera.

Episcleritis	1
Wound of Ciliary Region	6
Wound of Sclera	8
	15

Iris and Ciliary Body.	
Cyst	4
Irido-cyclitis	4
Iritis, simple	2
Rheumatic	2
Specific	8
Traumatic	8
Traumatic with Hypopion	3
Mydriasis, Traumatic	2
Occluded Pupil	2
Gumma	2
	37
Lens.	
Cataract, Capsular	37
Congenital	20
Lamellar	4
Mature	151
Post. Polar	2
Traumatic	32
Lens, Dislocation of	9
	255
Vitreous.	
Hæmorrhage	1
Optic Nerve.	
Atrophy	2
Neuritis	4
Neuritis, Retro-bulbar	2
Papillitis	1
	9
Retina.	
Foreign Body	1
Hæmorrhage	1
Neuro-retinitis	1
Pigmentary Degeneration	1
Retinitis Hæmorrhagic	1
Separation	7
Glioma	1
	13
Choroid.	
Choroiditis	4
Irido Sympathetic	1
Glaucoma, Acute	9
Chronic	5
Secondary	4
Simplex	6
Sarcoma	1
Staphyloma, Posterior	1
	31
Globe and Orbit.	
Cellulitis of Orbit	2
Disorganized Globe	31
Foreign Body in Globe	5
Irritable Orbit	2
Exophthalmus	1
Panophthalmitis	8
Phthisis Bulbi	7
Rupture of Globe	4
Tumor of Orbit	3
	63
General Injuries.	
Blows and cuts	6
Burns	3
	9
Refraction.	
Astigmatism, Compound Hypermetropic	1
Hypermetropia	1
Muscular Affections and Neuroses.	
Exophthalmic Goitre	1
Esophoria	1
Nystagmus	5
Paralysis of 3d Nerve	1
Ophthalmoplegia Ext.	1
Strabismus, Convergens	28
Divergens	5
Sursumvergens	1
	43
Miscellaneous.	
No disease	6
Eloped	3
	9
Total	957

OPHTHALMIC OPERATIONS.

Lids.

Abscess	9
Canthoplasty	3
Carcinoma	2
Chalazion	79
Cyst of Brow and Lid	8
Ectropion	2
Entropion and Trichiasis, Green's Operation	5
Other Operations	6
Epithelioma, excised	8
Plastic Operations	7
Ptosis	1
Pagenstecher's Operation	1
Tumors, excised	2
	133

Conjunctiva.

Cyst	1
Epithelioma	3
Granuloma	5
Pterygium Operations	22
Symblepharon	8
Tumors	3
	42

Cornea.

Curettage	3
Foreign Body Removed	1,223
Paracentesis for Glaucoma	1
Hypopion	1
Peritomy	1
Saemisch Operation for Hypopion	13
	1,242

Iris.

Hernia Reduced	1
Iridectomy, Artificial Pupil	14
Iridectomy for Glaucoma	17
Preliminary to Cataract Extraction	2
Occluded Pupil.	4
Prolapsed Iris	14
	52

Lens.

Capsule Operations	77
Cataract Extractions, Modified Graefe	52
Simple	39
Attempted Simple	6
Simple, with Buttonhole of Iris	49
Suction	10
Linear Incision	1
Discissions	35
Dislocated Lens, Removed	6
	275

Muscles.

Advancement, External Rectus	5
Internal Rectus	2
Tenotomy, External Rectus	6
Internal Rectus	62
Superior Rectus	2
	77

Enucleations.

For Disorganized Globe	33
Foreign Body in Globe	1
Glaucoma	1
Phthisis Bulbi	5
Sympathetic Inflammation, Threatened	1
Tumor of Globe	15
Tumor of Orbit	3
	1
	60

Miscellaneous.	
Abscess, Lachrymal Duct, Incised,	6
Amputation of Corneal Staphyloma	3
Foreign Body, Anterior Chamber	
Magnet	3
Attempted	3
Removed from Globe	1
Evisceration	3
Hæmatoma of Orbit	1
Molluscum Contagiosum	1
Puncture of Globe, Exploratory	2
New Growth of Orbit	2
Other Operations	22
	47
Total Operations,	1,928

DISEASES OF OUT-PATIENTS.

Lids.

Abscess	36
Blepharitis	696
Burns	22
Chalazion	362
Cysts	32
Dermatitis	8
Ecchymosis	39
Cicatrix of Inner Canthus	1
Emphysema	3
Ectropion	31
Erythema	1
Eczema	41
Entropion	12
Epicanthus	3
Epithelioma	15
Furuncle	1
Foreign body	144
Granuloma	2
Herpes Zoster	7
Hordeolum	100
Herpes Frontalis	2
Lagophthalmus	5
Lippitudo	9
Milium	4
Molluscum	3
Nævus	6
Œdema	70
Papilloma	4
Pediculi	6
Phtheriasis	3
Ptosis	29
Pustule	9
Symblepharon	5
Sarcoma	1
Trichiasis	47
Tumors	13
Ulcers	3
Verruca	6
Wounds	12
Xanthelasma	1
	1,794

Lachrymal Apparatus.

Abscess	52
Dacryo-cystitis	21
Epiphora and Lachrymal Obstruction	354
Fistula	4
Mucocele	53
Tumor	1
	485

Conjunctiva.

Burns	35
Conjunctivitis, Catarrhal Acute,	994
Catharrhal, Chronic	574
Diphtheritic	5
Follicular	100
Gonorrhœal	12
Granular	181
with Pannus	40
Muco-purulent	55
Neonatorum	60
Phlyctenular	317
Pustular	6
Rheumatic	2
Simple	1,337
Traumatic	140
Chemosis	1
Cuts	19
Ecchymosis	139
Foreign body	33
Lymphangiectasis	2
Nævus	3
Œdema	18
Pinguecula	46

Pterygium	98
Tumor	3
Hypertrophy	1
	4,186

CORNEA AND SCLERA.

Abrasion	144
Abscess	17
with Hypopion	15
Burns	58
Cyst, Dermoid	1
Degeneration of Cornea	1
Episcleritis	60
Epithelioma	1
Foreign body, Cornea	1,223
Sclera	8
Infiltration of Cornea	95
Growth of Cornea	1
Keratitis, Bullous	2
Interstitial	57
Marginal	2
Phlyctenular	291
Punctuate	1
Neuro-paralytic	1
Simple	291
Strumous	1
Superficial	2
Traumatic	21
Ulcerative	2
with Hypopion	5
Vascular	30
Vesicular	1
Keratoconus	7
Keratoglobus	1
Keratoma	1
Kerato-iritis	8
Leucoma	170
Adherens	6
Inflamed	16
Macula of Cornea	7
Nebulæ	208
Opacities of Cornea	33
Rupture of Cornea	6
Rupture of Sclera	2
Scleritis	11
Sclero-keratitis	12
Staphyloma of Cornea	24
Ulcer of Cornea	329
with Hypopion	20
Perforating	12
Marginal	3
Rodent	2
Serpiginous	3
Traumatic	58
Vascular	15
Wound of Ciliary Region	2
of Cornea	35
Perforating of Cornea	6
of Sclera	10
	3,821

IRIS AND CILIARY BODY.

Aniridia	2
Atrophy	1
Coloboma of Iris	5
Ciliary Injection	5
Cyst of Iris	1
Irido-cyclitis	6
Irido-dialysis	3
Irido-donesis	3
Iritis, Rheumatic	180
Specific	39
Traumatic	21
with Hypopion	3
Mydriasis	30
Artificial	45
Occluded Pupil	18
Rupture of Iris	2
Synechia, Anterior	39
Posterior	20
	423

LENS.

Aphakia	1
Cataract, Anterior Pyramidal	2
Capsular	148
Congenital	11
Cretaceous	1
Incipient	228
Lamellar	1
Mature	40
Nuclear	3

Cataract, Posterior Polar	10
Traumatic	51
Dislocated Lens	23
Opacities of Lens	105
Pigmentation of Lens	1
Sclerosed Lens	1
	626

VITREOUS.

Hæmorrhage	9
Hyalitis	1
Muscæ Volitantes	20
Opacities	87
	117

OPTIC NERVE.

Atrophy	56
Neuritis	20
Neuritis, Retro-bulbar	1
Papillitis	5
	82

RETINA.

Amyloid Degeneration	1
Coloboma of Macula	1
Changes in Macula	10
Glioma in Macula	1
Hæmorrhage in Macula	9
Neuro-retinitis	18
Retinitis	16
Retinitis, Albuminuric	11
Hæmorrhagic	10
Pigmentosa	4
Proliferans	1
Specific	2
Separation of Retina	28
Thrombosis Retinal Vein	1
	113

CHOROID.

Albinism	1
Atrophy	16
Choroidal changes	8
Choroiditis	39
Disseminated	3
Glaucoma	46
Irido-choroiditis	7
Retino-choroiditis	10
Rupture of Choroid	4
Sarcoma	2
Sclerotico-choroiditis, posterior	8
Staphyloma, posterior	53
	197

GLOBE AND ORBIT.

Atrophy	4
Anophthalmus	6
Anopia	1
Cellulitis	3
Disorganized Globe	20
Exophthalmus	10
Foreign Body, Globe	1
Hydrophthalmus	2
Irritable Orbit	4
Panophthalmitis	3
Phthisis Bulbi	31
Rupture of Globe	2
Tumor of Globe	1
Tumor of Orbit	3
	91

GENERAL INJURIES.

Blows and Cuts	193
Burns	33
	226

ACCOMMODATION AND REFRACTION.

Asthenopia	120
Astigmatism	1,713
Emmetropia	108
Hypermetropia	1,807
Myopia	563
Paralysis of Accommodation	25
Presbyopia	355
	4,691

AFFECTIONS OF THE PERCIPIENT APPARATUS.

Amblyopia	65
(Alcohol, Tobacco, etc.)	36
Hemianopsia	1
Nyctalopia	3
Scotoma	26
	131

Muscular Affections and Neuroses.

Blepharo-spasm	6
Ciliary Neuralgia	3
Diplopia	31
Esophoria	21
Hyperphoria	4
Nictitation	22
Nystagmus	51
Orthophoria	21
Ophthalmoplegia, externa	3
Paralysis of Facial Nerve	19
Third Nerve	19
Inferior Rectus	1
Superior and External Rectus	17
Sphincter Muscle	2
Photophobia	13
Strabismus, Alternating	17
Convergens	305
Divergens	62
Strabismus, Transient	6
Supra-orbital Neuralgia	11
	634

General Diseases.

Anæmia	11
Locomotor Ataxia	1
Nephritis	2
Neurasthenia	4
	18

Miscellaneous.

Eloped	234
Entered by mistake	4
No disease	10
Referred to other Institutions	76
Unfit	177
Unrecorded	64
	565

SUMMARY OF DISEASES.

Lids	1,794
Lachrymal Apparatus	485
Conjunctiva	4,186
Cornea and Sclera	3,821
Iris and Ciliary Body	423
Lens	627
Vitreous	117
Optic Nerve	82
Retina	113
Choroid	197
Globe and Orbit	92
General Injuries	226
Accommodation and Refraction	4,691
Affections of the Percipient Apparatus	131
Muscular Affections and Neuroses	634
General Diseases	18
Miscellaneous	565
	18,202

REPORT OF ONE HUNDRED AND SEVENTY-TWO

CATARACT EXTRACTIONS,

Performed at the Infirmary by the Ophthalmic Staff during the year ending August 31, 1896.

COMPILED BY FREDERICK E. CHENEY, M. D.

Of the following one hundred and seventy-two cases of Cataract, one hundred and twenty-six were mature senile cataracts, and forty-six traumatic, congenital, and other cataracts not senile.

The cases of mature senile cataract were operated on by one of the following methods: —

Modified Graefe Extraction	45
Simple extraction	40
Simple extraction with buttonhole of Iris .	41
	126

The resulting vision in these one hundred and twenty-six cases was as follows: —

MODIFIED GRAEFE EXTRACTIONS.

Vision = 1	2	Vision = 0.1	10
" = 0.9	0	" = 0.05	3
" = 0.8	0	" = fingers	3
" = 0.7	2	" = shadows	0
" = 0.6	0	" = perception of light .	1
" = 0.5	1	" = 0	0
" = 0.4	3	" = not recorded . .	1
" = 0.3	8		
" 0.2 . . .	11	Total	45

SIMPLE EXTRACTION.

Vision = 1	5	Vision = 0.2	11
" = 0.9	1	" = 0.1	1
" = 0.8	1	" = 0.05	1
" = 0.7	1	" = fingers	0
" = 0.6	1	" = perception of light	0
" = 0.5	5	" = 0	0
" = 0.4	4		
" = 0.3	6	Total	40

SIMPLE EXTRACTION WITH BUTTONHOLE OF IRIS.

Vision = 1	0	Vision = 0.1	7
" = 0.9	0	" = 0.05	1
" = 0.8	1	" = fingers	3
" = 0.7	1	" = shadows	1
" = 0.6	1	" = perception of light	0
" = 0.5	4	" = 0	2
" = 0.4	9	" = not recorded	2
" = 0.3	2		
" = 0.2	7	Total	41

In about three fourths of the cases the vision recorded was that found just before the patient was discharged from the Infirmary.

A secondary operation was done in thirty-six cases, as a rule, within from two to four weeks after the primary operation. In the extractions with Iridectomy there were two cases of prolapse of iris. In the simple extractions prolapse of the iris occurred in two cases, and the iris was adherent to the corneal wound in eight cases. In the simple extractions with buttonhole of iris, the iris prolapsed in three cases and was adherent to the corneal wound in two cases.

The resulting vision in the forty-six cases classed under the head of traumatic, congenital, and other cataracts not senile, is given in the following tabulation. It will be noticed that in quite a large proportion of the cases, the

vision is very defective. In most of these the poor sight was due to the presence of unabsorbed lens substance in the pupillary area, and ultimate useful vision is to be expected.

TRAUMATIC, CONGENITAL, AND OTHER CATARACTS NOT SENILE.

Vision = 1	1	Vision = 0.1	4
" = 0.9	0	" = 0.05	0
" = 0.8	0	" = fingers	9
" = 0.7	1	" = shadows	10
" = 0.6	1	" = perception of light	2
" = 0.5	1	" = 0	0
" = 0.4	5	" = not taken	2
" = 0.3	3	Died	1
" = 0.2	5		
		Total	46

MATURE SENILE CATARACTS.

Modified Graefe Extractions.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	Female. 72 Canada. Good.	2 years. Senile. Normal.	Sept. 1, 1895. Cocaine. Normal. Bandage omitted on eighth day. 17 days.	V. o. s. = 0.3.
2	Female. 70 Canada. Good.	11 months. Senile. Normal. Opacity, cornea lower border.	Sept. 6, 1895. Cocaine. Normal. Sept. 7, bead of vitreous found between lids, but anterior chamber established. Bandage omitted on sixth day. 29 days.	V. o. s. = 0.4.
3	Female. Ireland. Good.	4 years. Senile. Normal.	Sept. 13, 1895. Cocaine. Normal. Sept. 15, bandage changed. Sept. 16, small adhesion of lower part of iris, to centre of posterior capsule. Some injection, omit bandage Oct. 3, eye white. Some capsule. 17 days.	V. o. s. = 0.3.
4	Male. 48 Amer. Good.	4 years. Senile. Normal.	Sept. 27, 1895. Cocaine. Normal. Oct. 1, bandage changed. Oct. 5, bandage omitted. Oct. 8, iritis. Oct 16, much improved. 35 days.	V. o. d. = 0.2.
5	Male. 55 Canada. Good.	6 months. Senile. Normal.	Oct. 1, 1895. Cocaine. Normal. Oct. 6, bandage omitted. Eye white. One small iritic adhesion to capsule. 23 days.	V. o. s. = 0.1.
6	Female. 75 Ireland. Good.	4 years. Senile. Normal.	Oct. 4, 1895. Cocaine. Normal. Oct. 7, anterior chamber re-established. Bandage omitted. Oct. 19, eye white and quiet. 16 days.	V. o. s. = 0.4.
7	Female. 54 Canada. Good.	7 years. Senile. o. s. operated upon 4 years ago, now Phthisis bulbi. o. d. Iris discolored. Hypermature lens, decreased tension.	Oct. 5, 1895. Cocaine. Normal. Oct. 12, bandage has been changed daily, omitted to-day. Oct. 23, no injection. Good recovery. 19 days.	V. o. d. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
8	Male. 58 Amer. Good.	4 years. Senile. Dense opacity running transversely across cornea.	Oct. 16, 1895. Cocaine. Normal. Oct. 23, bandage changed daily since operation. Some injection. Oct. 26, eye white and quiet. 11 days.	V. o. s. = 0.1.
9	Male. 78 Amer. Good.	3 years. Senile. Normal.	Oct. 22, 1895. Cocaine. Normal. Oct. 24, good anterior chamber. Oct. 29, bandage omitted. Nov. 5, eye white and quiet. Discharged 15 days.	V. o. s. = 0.3.
10	Male. 62 Amer. Good.	6 years. Senile. Posterior Synechiæ below. Functions. Doubtful.	Oct. 23, 1895. Cocaine. Normal. Some cortical left in pupil. Oct. 26, bandage changed. Oct. 28, eye white, bandage omitted. Considerable lens substance unabsorbed. Discharged. March 28, 1896, secondary operation. April 7, discharged. 17 days.	V. o. s. = 1.0.
11	Female. 60 Canada. Good.	3 years. Senile. Normal.	Nov. 1, 1895. Cocaine. Normal. Nov. 3, good anterior chamber, no adhesions. Nov. 7, bandage changed daily since operation, omitted to-day. Nov. 16, eye white and quiet. Discharged. 17 days.	V. o. d. = 0.3.
12	Male. 67 Amer. Good.	2 years. Senile. Normal.	Nov. 22, 1895. Cocaine. Normal. Nov. 28, bandage changed daily since operation. Omitted to-day. 18 days.	V. o. s. = 0.2. Mar. 3, 1896. V. o. s. = 0.3.
13	Male. 71 West Indies. Good.	2 years. Senile. Normal.	Nov. 22, 1895. Cocaine. Normal. Nov. 28, bandage changed daily since operation, omitted to-day. Dec. 9, pupil fairly free from capsule. Eye white. 18 days.	V. o. s. = 0.1.
14	Female. 65 Ireland. Good.	3 years. Senile. Normal.	Nov. 26, 1895. Cocaine. Normal. Dec. 3. bandage changed daily since operation, omitted to-day. Dec. 4, patient hit eye. Iritis. Prolapse. Jan. 5, 1896, eye white. Prolapse flattening out. Pupil clear. 48 days.	V. o. d. = 0.2.
15	Female 46 Scotland. Good.	11 months. Senile. Normal.	Nov. 26, 1895. Cocaine. Normal. Dec. 3, bandage changed daily since operation, omitted to-day. Anterior chamber well established. No injection. 21 days.	V. o. d. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
16	Male. 79 Amer. Good.	Senile. Normal.	Nov. 27, 1895. Cocaine. Normal. Tendency of iris to prolapse. Dec. 4, bandage changed daily since operation, omitted to-day. Dec. 5, hyphæma. Jan. 9, 1896, eye nearly white. Still hyphæma. Pupil filled with thin exudate. 35 days.	V. o. d. = 0.1.
17	Female. 49 Amer. Good.	3 years. Senile. Normal.	Dec. 11, 1895. Cocaine. Normal. Dec. 13, bandage changed. Dec. 18, bandage omitted. Some capsule. Hyphæma. Patient hit eye during night. 18 days.	V. o. s. = 0.2. Feb. 1, 1896. V. o. s. = 0.1.
18	Female. 64 Ireland. Good.	1 year. Senile. Normal.	Dec. 14, 1895. Cocaine. Normal. Dec. 17, bandage omitted. Eye white. Some capsule. 14 days.	V. o. d. = 0.2.
19	Male. 65 Amer. Good.	1 year. Senile. Normal.	Dec. 18, 1895. Cocaine. Normal. Dec. 24, bandage omitted. Jan. 4, 1896, eye white and quiet. Some capsule. Jan. 6, secondary. Good hole through capsule. 29 days.	V. o. s. = 0.1.
20	Male. 85 Amer. Good.	3 months. Senile. Normal.	Jan. 30, 1896. Cocaine. Cornea collapsed after incision. Much soft cortical. Bandage omitted on sixth day. Iritis. Cornea slightly hazy. Feb. 8, patient hit eye. Feb. 9, Cornea clearer. Exudate in interior chamber and pupil. Feb. 26, exudate in anterior chamber nearly absorbed. Feb. 29, mental condition poor and patient discharged at own request. 30 days.	V. o. s. = light.
21	Male. 65 Scotland. Good.	9 years. Hypermature. Normal.	Feb. 5, 1896. Cocaine, Iris fell in front of knife during cut. Bandage omitted on seventh day. Pupil well dilated. Normal recovery. Some capsule in pupil. 23 days.	V. o. s. = 0.2.
22	Male. 82 Amer. Good.	12 years. Senile. Normal.	Feb. 7, 1896. Cocaine. Lens rotated out with hook. Bandage omitted on eighth day. Moderate injection, considerable mucous discharge. Pupil well dilated. March 14, opacity on posterior surface of cornea. Some capsule. 36 days.	V. o. d. = 0.2. June 12, '96. V. o. d. = 0.5.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
23	Female. 67 Amer. Good.	Duration not known. Senile. Normal.	Feb. 19, 1896. Cocaine. Patient behaved badly during operation and only a segment of iris was removed. Bandage omitted on eighth day. Pupil well dilated. Considerable capsule. Eye white and quiet. 20 days.	V. o. d. = 0.2. May 12, '96. V. o. d. = 0.3.
24	Male. 69 Amer. Good.	2½ years. Senile. Normal.	March 3, 1896. Cocaine. Much soft cortical. Bandage omitted on eighth day. Iritis. Pupil filled with exudate. April 29, considerable capsule in pupil. 57 days.	V. o. d. = 1-20.
25.	Male. 58 Normal. Good.	10 years. Hypermature. Senile. Normal.	March 6, 1896. Cocaine. Normal. Bandage omitted on seventh day. Clear pupil. Very little injection. 20 days.	V. o. d. = 0. 2. Sept. 4, 1896. V. o. d. = 1. 0.
26	Male. 62 Ireland. Good.	1 year. Senile. Normal.	March 13, 1896. Cocaine. Some soft cortical left in coloboma. March 20, bandage omitted. Considerable conjunctival injection. Dense capsule. 32 days.	V. o. s. = 0.1. May 5, 1896. V. o. s. = 0.3.
27	Female. 75 Ireland. Good.	6 years. Senile. Normal.	March 17, 1896. Cocaine. Bandage omitted on ninth day. April 3, pupil moderately dilated. Considerable injection. Some capsule. 29 days.	V. o. s. = 0.3.
28	Female. 60 Ireland. Good.	1 year. Senile. Normal.	April 10, 1896. Cocaine. April 17, wound still open. Monocular bandage. April 21, anterior chamber re-established. Capsule in pupil. 21 days.	V. o. d. = fingers. June 15, 1896. V. o. d. = 0.7.
29	Male. 58 Ireland. Good.	9 months. Senile. Normal.	April 15, 1896. Cocaine. Bandage omitted on eighth day. Pupil well dilated. Large amount of cortical in pupil. 14 days.	V. o. d. = fingers.
30	Female. 58 Ireland. Good.	8 years. Senile. Normal.	April 23, 1896. Cocaine. Bandage omitted on eighth day. Pupil well dilated. Capsule. 19 days.	V. o. s. = 0.2. Sept. 6, 1896. V. o. s. = 0.3+.
31	Female. 50 Ireland. Good.	6 years. Senile. Normal.	April 24, 1896. Cocaine. Bandage omitted on eighth day. Pupil good size. Some capsule. 28 days.	V. o. d. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing process. Duration of Treatment.	Vision.
32	Female. 68 Amer. Good.	2 years. Senile. Normal.	April 24, 1896. Cocaine. Bandage omitted on eighth day. Pupil good size, and clear. 21 days.	V. o. d. = 0.7. Sept. 8, 1896. V. o. d. = 0.7.
33	Male. 64 Amer. Good.	2 years. Senile. Mature.	April 24, 1896. Cocaine. Bandage omitted on eighth day. Pupil good size, and clear. 15 days.	V. o. d. = 0.4.
34	Male. 55 Ireland. Good.	1½ years. Senile. Normal.	May 2, 1896. Cocaine. Bandage omitted on eighth day. Pupil not dilated. Capsule. May 19, secondary operation. June 6, eye white and quiet. Clear hole through capsule. 35 days.	V. o. d. = 0.1.
35	Male. 54 Ireland. Good.	1 year. Senile. Normal.	May 7, 1896. Cocaine. Capsule could not be divided with cystatome, but was removed entire with forceps. Bandage omitted on eighth day. Pupil well dilated. 19 days.	V. o. d. = 0.3. July 23, 1896. V. o. d. = 1.0.
36	Male. 84 Amer. Good.	5 years. Senile. Normal.	May 16, 1896. Cocaine. Normal. Bandage omitted on eighth day. Eye quiet. Pupil filled with dense capsule. 19 days.	V. o. d. = fingers 6 feet.
37	Male. 64 Ireland. Good.	1 year. Senile. Blow two years ago. Iris tremulous. Normal.	June 6, 1896. Cocaine. Bandage omitted on eighth day. Some capsule. July 7, secondary operation. July 15, good hole in capsule. Vitreous full of floating opacities. 39 days.	V. o. s. = 0.1—.
38	Female. 54 Ireland. Good.	2½ years. Senile. Numerous posterior synechia.	June 23, 1896. Cocaine. Considerable vitreous followed lens. June 30, prolapse of iris. Monocular bandage. July 18, prolapse flattened down. 25 days.	V. o. s. = fingers.
39	Male. 84 Amer. Good.	2 years. Senile. Normal.	July 3, 1896. Cocaine. Iris firm, and extraction of lens aided by rotating it slightly. Bandage omitted on eighth day. Considerable capsule. July 17, secondary operation. 17 days.	V. o. s. = 0.1. July 30, 1896. V. o. s. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
40	Male. 62 Ireland. Good.	2 years. Senile. Doubtful function.	July 8, 1896. Cocaine. Much soft cortical. Bandage omitted on sixth day. Aug. 1, considerable injection. Slight iritis. 36 days.	V. o. s. = 0.1.
41	Female. 40 Germany Good.	Not known. Senile. Normal.	July 23, 1896. Cocaine. Bandage omitted on eighth day. Some cortical. 15 days.	V. o. d. = 0.1. Sept. 4, 1896. V. o. d. = 0.1+.
42	Female. 58 Norway. Good.	Not known. Senile. Normal.	July 24, 1896. Cocaine. Operation without incident. Bandage omitted on eighth day. Considerable capsule. 18 days.	V. o. s. = 0.2.
43	Female. 78 Ireland. Good.	6 months. Senile. Normal.	July 27, 1896. Cocaine. Operation without incident. Bandage omitted on eighth day. Eye white and quiet. 15 days.	Not taken.
44	Male. 70 Ireland. Good.	6 months. Senile. Normal.	July 29, 1896. Cocaine. Much soft cortical. Bandage omitted on eighth day. Some capsule. Eye white and quiet. 19 days.	V. o. d. = 0.2.
45	Male. 76 Amer. Fair. Valvular lesion. Arthritis deformens.	3 years. Senile. Normal.	Aug. 6, 1896. Cocaine. Escape of fluid vitreous. Bandage omitted on eighth day. Capsule in pupil. Aug. 20, slight iritis. 22 days.	V. o. d. = 1-20.

MATURE SENILE CATARACT.

Simple Extraction.

46	Female. 37 Canada. Good.	3 years. Senile. Normal.	Oct. 17, 1895. Cocaine. Normal. Bandage removed, no anterior chamber. Oct. 22, anterior chamber re-established. Some injection. Good normal pupil. No adhesions. Oct. 31, eye white and quiet. 15 days.	V. o. d. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
47	Female. 60 Amer. Good.	2 years. Senile. Normal.	Nov. 7, 1895. Cocaine. Normal. Nov. 11, omit bandage. Considerable injection. No anterior chamber. Nov. 12, good anterior chamber. Iritic adhesions to lips of wound. Nov. 21, eye white and quiet. Nov. 25, secondary operation with Graefe knife. 22 days.	V. o. d. = 0.3.
48	Male. 61 Amer. Good.	3 years. Senile. A number of opacities on cornea. Normal.	Nov. 11, 1895. Cocaine. Attempted simple extraction. The extraction was normal, but after the operation it was found that iris would not remain place in spite of eserine. Therefore, an iridectomy was done. Nov. 14, bandage removed, good anterior chamber. Nov. 13, eye white and quiet. Iris attached to cornea at edge of coloboma. 20 days.	V. o. d. = 0.1. Jan. 23, 1896. V. o. d. = 0.3
49	Female. 76 Amer. Good.	4 years. Senile. Normal.	Nov. 16, 1895. Cocaine. Normal. Nov. 19, omit bandage. Pupil round, clear, central. Anterior chamber re-established. Nov. 20, considerable injection. Pupil contracted. Dec. 3, eye white and quiet. Pupil adherent to capsule and does not dilate well. Dec. 1, 1895, secondary operation. 18 days.	V. o. d. = 0.3. Jan. 3, 1896. V. o. d. = 0.8—.
50	Female. 66 Germ'ny. Good.	1 year. Senile. Normal.	Dec. 8, 1896. Cocaine. Normal. Iris showed tendency to prolapse after operation, so iridectomy was done. Dec. 16, bandage omitted, no injection. Dec. 26, one posterior synechia. Capsule discharged. Jan. 20, secondary operation. Jan. 23, discharged. 23 days.	V. o. d. = 0.3.
51	Male. 76 Amer. Good.	3 years. Senile. Normal. Old Lachrymal obstruction.	Dec. 23, 1895. Cocaine. Cornea collapsed after extraction. Iris in good position. Considerable cortical left in eye. Dec. 27, prolapse of iris. Pupil full of cortical. Jan. 5, 1896. Bandage omitted. Jan. 11, abscission of prolapsed iris. Jan. 20, secondary. Jan. 26, second secondary. Feb. 2, third secondary. 47 days.	V. o. s. = fingers. June 18, 1896. V. o. s. = 0.2.
52	Male. 39 Engl'nd. Good.	2 years. Senile. Normal.	Feb. 25, 1896. Cocaine. Considerable soft cortical. March 3, iris slightly caught in wound. Pupil well dilated. Some capsule. 17 days.	V. o. d. = 0.1. Apr. 28, 1896. V. o. d. = 0.5.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
53	Male. 64 Ireland. Good.	1 year. Senile. Normal.	March 12, 1896. Cocaine. Operation without incident. Bandage omitted on fifth day. Pupil round and central. Slight injection. March 20, considerable injection of conjunctiva. Pupil well dilated. Some capsule. March 26, secondary operation. 18 days.	V. o. d. = 0.2.
54	Female. 57 Ireland. Good.	2 years. Senile. Normal.	March 12, 1896. Cocaine. Bandage omitted on fourth day. Pupil round and central, some capsule. March 26, secondary operation. March 29, good hole through capsule. Eye white and quiet. 18 days.	V. o. s. = 0.5.
55	Male. 52 Amer. Good.	7 years. Senile. Normal.	March 12, 1896. Cocaine. Cornea collapsed after incision. Capsule dense and calcareous. Bandage omitted on fifth day. Pupil round, small, and central. March 25, eye nearly white and quiet. No capsule. 14 days.	V. o. s. = 0.5—. July 26, 1896. V. o. s. = 1.0.
56	Female. 66 Amer. Good.	2 years. Senile. Normal.	March 21, 1896. Cocaine. Considerable soft cortical. Bandage omitted on fifth day. Moderate injection. Pupil round and central. Thin capsule. 26 days.	V. o. s. = 0.3—
57	Male. 70 Amer. Good.	2 years. Senile. Normal.	March 26, 1896. Cocaine. Small nucleus. Considerable soft cortical. Bandage omitted on fourth day. Pupil round and central. Anterior chamber very shallow. Very little capsule. 19 days.	V. o. d. = 0.4—. April 23, 1896. V. o. d. = 0.9.
58	Female. 58 Azores. Good.	Not known. Senile. Normal.	March 30, 1896. Cocaine. Bandage omitted on fourth day. Pupil round and central. Capsule. April 27, secondary operation. 19 days.	V. o. s. = 0.2. May 15, 1896. V. o. s. = 1.0.
59	Female. 68 Ireland. Poor. Cancer of breast.	3 years. Senile. Normal.	April 2, 1896. Cocaine. Bandage omitted on fourth day. Pupil round and central. Slight injection. Pupil clear. April 21, eye white and quiet. 21 days.	V. o. d. = 0.5. Later. V. o. d. = 0.6+.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
60	Male. 75 Engl'nd. Fair.	7 years. Senile. Central scar on cornea. Normal.	April 2, 1896. Cocaine. Bandage omitted on fourth day. Pupil round and central. Capsule in pupil. April 16, secondary operation. Clear hole in capsule. 26 days.	V. o. d. = 0.4.
61	Female. 72 Amer. Good.	3 years. Senile. Corneal opacity. Old case of trachoma. Normal.	April 9, 1896. Cocaine. Collapse of cornea after corneal incision. Bandage omitted on fifth day. Pupil round and central. April 23, eye white and quiet. Thin capsule. 14 days.	V. o. s. = 1-20. (High myopia.)
62	Female. 37 Amer. Good.	9 years. Senile. Normal.	April 9, 1896. Cocaine. Large nucleus. Normal operation. Bandage omitted on fifth day. Pupil round and central. Capsule. April 16, increased injection. April 23, secondary operation. Clear hole through capsule. 30 days.	V. o. s. = 0.2. (High myopia.)
63	Female. 67 Canada. Good.	3 years. Senile. Normal.	April 9, 1896. Cocaine. Operation normal. Bandage omitted on fifth day. Pupil round, central. Slight injection. April 20, increased injection and pain. May 5, very little injection. No pain. May 6, secondary operation. Good hole in capsule. 37 days.	V. o. s. = 0.3.
64	Female. 42 Amer. Poor.	3 years. Senile. Normal.	April 13, 1896. Cocaine. When cystotome was passed behind iris, a large amount of pigment was detached from iris, and filling pupil obscured lens. Bandage omitted on fourth day. Pupil round and central. Capsule. April 20, secondary operation. 22 days.	V. o. s. = 0.7.
65	Female. 61 Ireland. Good.	3½ days. Senile. Normal.	April 16, 1896. Cocaine. Much soft cortical. Operation normal. Bandage omitted on fifth day. Pupil round, central. Clear pupil. 25 days.	V. o. s. = 0.9—. May 26, 1896. V. o. s. = 1.0.
66	Female. 66 Amer. Good.	2 years. Senile. Not made.	April 16, 1896. Cocaine. Much soft cortical. Operation normal. Bandage omitted on fifth day. Pupil round, central. Capsule. May 4, discharged. May 20, 1896, secondary operation. 26 days.	V. o. s. = 0.2. (Opacity in vitreous.)

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
67	Female. 73 Amer. Good.	15 years. Senile. Normal.	April 30, 1896. Cocaine. Iris rigid. On attempting to remove a bit of cortical bead of vitreous presented and was cut off. Iris replaced. No tendency to prolapse. Bandage omitted on fifth day. Pupillary edge of iris adherent to corneal wound. Some cortical. May 20, secondary operation. 28 days.	V. o. d. = 0.3.
68	Male. 68 Amer. Poor.	4 years. Senile. Normal.	May 4, 1896. Cocaine. Considerable soft cortical. Bandage omitted on fifth day. Considerable injection and pain. Iritis. May 20, secondary operation. May 27, eye white and quiet. 23 days.	V. o. s. = 0.2.
69	Male. 68 Amer. Poor.	1 year. Senile. Normal.	May 6, 1896. Cocaine. Operation without incident. Bandage omitted on sixth day. Pupil round and central. Iris adherent to wound. Some cortical. May 27, eye quiet. Clear hole in capsule. Cystoid cicatrix. 21 days.	V. o. d. = 0.3. July 15, 1896. V. o. d. = 0.5.
70	Female. 41 Amer. Good.	3 years. Senile. Normal.	May 6, 1896. Cocaine. Bandage omitted on sixth day. Pupil round and central. May 12, hit eye in night. Iris engaged in wound, but not prolapsed. Pupil drawn upward. 26 days.	V. o. s. = 0.1— June 22, 1896. V. o. s. = 0.2.
71	Male. 70 Amer. Good.	4 years. Senile. Normal.	May 11, 1896. Cocaine. Bandage omitted on fifth day. Pupil central and round. 16 days.	V. o. d. = 0.3. June 29, 1896. V. o. d. = 1.0.
72	Female. 64 Amer. Fair. Albumen in Urine.	2 years. Senile. Normal.	May 15, 1896. Cocaine. May 18. Pupil round and central. May 20, anterior chamber evacuated. May 21, anterior chamber re-established. Eye white and quiet. 15 days.	V. o. s. = 0.2.
73	Female. 70 Ireland. Good.	Senile. Normal.	May 18, 1896. Cocaine. Bandage omitted on fifth day. Anterior chamber empty. May 28, secondary. 21 days.	V. o. s. = 0.2.
74	Male. 63 Canada. Good.	4 years. Senile. Normal.	May 18, 1896. Cocaine. Bandage omitted on fifth day. Pupil round and central. 11 days.	V. o. s. = 0.8. June 12, 1896. V. o. s. = 1.0.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
75	Female. 65 Amer. Good.	30 years. Senile. Normal.	May 20, 1896. Cocaine. Bandage omitted on fifth day. Pupil round and central. 17 days.	V. o. d. = 0.5.
76	Female. 74 Amer. Good.	4 years. Senile. Normal.	May 22, 1896. Cocaine. Bandage omitted on fourth day. Pupil round and central. June 8, secondary operation. 21 days.	V. o. s. = 0.2. Sept. 2, 1896. V. o. s. = 0.4.
77	Female. 71 Amer. Good.	1½ years. Senile. Normal.	May 22, 1896. Cocaine. Bandage omitted on fourth day. Pupil round and central. Dense capsule. June 8, secondary operation. June 11, considerable pain during night. Cornea hazy below. Eye injected. July 24, cornea clear. Slight injection. 41 days.	V. o. d. = fingers. July 29, 1896. V. o. s. = fingers.
78	Female. 71 Amer. Good.	11 years. Senile. Normal.	May 25, 1896. Cocaine. Bandage omitted on fourth day. Pupil round and central. Dense capsule. 14 days.	V. o. d. = 0.1.
79	Male. 64 Engl'nd. Good.	5 years. Senile. Normal.	May 25, 1896. Cocaine. Some cortical left in pupil. Bandage omitted on fourth day. Anterior chamber shallow. Slight prolapse. Pupil drawn upward and inward. June 8, secondary operation. 29 days.	V. o. s. = 0.2. July 31, 1896. V. o. s. = 0.2.
80	Male. 65 Ireland. Good.	8 years. Senile. Normal.	May 26, 1896. Cocaine. Much soft cortical. June 2, anterior chamber not re-established. Much opaque cortical in pupil. June 6, anterior chamber re-established. Eye white and quiet. 28 days.	V. o. d. = 0.2.
81	Male. 62 Ireland. Good.	1½ years. Senile. Normal.	May 28, 1896. Cocaine. Some opaque capsule in pupil. Bandage omitted on fourth day. Anterior chamber not re-established. Much capsule and cortical substance in pupil. June 8, secondary operation. 26 days.	V. o. s. = 0.4. Aug. 6, 1896. V. o. s. = 0.4.
82	Male. 60 Ireland. Good.	1 year. Senile. Projection poor.	June 20, 1896. Cocaine. Iris adherent to wound and slightly drawn upward. Patient has removed bandage number of times. Some capsule. 12 days.	V. o. d. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
83	Female. 52 Canada. Good.	1 year. Senile. Normal.	July 1, 1896. Cocaine. Considerable vitreous followed soft cortical and was excised. Pupil drawn up toward wound. Bandage omitted on tenth day. No prolapse. Pupil clear and slightly drawn upwards. 22 days.	V. o. s. = 0.3. Aug. 10, 1896. V. o. s. = 0.5.
84	Male. 64 Ireland. Good.	3 years. Senile. Poor projection.	July 9, 1896. Cocaine. Iridectomy after removal of nucleus, as there was a large amount of sticky cortical that could not be removed. Bandage omitted on eighth day. July 25, secondary. Aug. 12, secondary operation. Sept. 12, secondary operation. Still under treatment.	V. o. s. = shadows.
85	Female. 52 Ireland. Good.	6 months. Senile. Normal.	July 18, 1896. Cocaine. July 25, pupil drawn upwards. Aug. 11, pupil clear, central. 23 days.	V. o. d. = 0.2.

MATURE SENILE CATARACTS.

Simple Extraction, with Buttonhole in Iris.

86	Female. 60 Ireland. Good.	8 months. Senile. Normal.	Sept. 11, 1895. Cocaine. Normal. Sept. 16, bandage changed daily since operation. Pupil in good position. Normal recovery. Sept. 28, eye white. Some lens capsule. 18 days.	V. o. d. = 0.3—.
87	Female. 61 Amer. Good.	2 years. Senile. Normal.	Sept. 14, 1895. Cocaine. Normal. Bandage changed daily. Normal recovery. Sept. 28, pupil round and in good position. 15 days.	V. o. s. = 0.4.
88	Female. 58 Ireland. Good.	3 years. Senile. Normal.	Sept. 28, 1895. Cocaine. Normal. Sept. 30, anterior chamber not established. Oct. 4, monocular bandage. Shallow anterior chamber. Oct. 21, eye white and quiet. 24 days.	V. o. d. = 0.2.
89	Female. 60 Engl'nd. Good.	2 years. Senile. Normal.	Sept. 30, 1895. Cocaine. Normal. Oct. 4, bandage omitted. Oct. 23, eye white. Some capsule. 24 days.	V. o. d. = 0.1—.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
90	Female. 75 Ireland. Good.	2 years. Senile. Normal.	Oct. 5, 1895. Cocaine. Normal. Oct. 12, bandage changed daily since operation, omitted to-day. Oct. 19, normal recovery.	V. o. s. = 0.4.
91	Female. 48 Canada. Good.	1½ years. Senile. Normal.	Nov. 16, 1895. Cocaine. Normal. Nov. 23, bandage changed daily, omitted to-day. Nov. 28, eye white. Very little capsule. Discharged. March 25, 1896, secondary operation. March 28, eye white. Discharged. 16 days.	V. o. d. = 0.3. March 28, 1896. V. o. d. = 0.5+.
92	Male. 46 Ireland. Good.	1 year. Senile. Normal.	Nov. 16, 1895. Cocaine. Normal. Nov. 23, bandage changed daily since operation. Dec. 2, eye white. Pupil dilates well. Capsule. 17 days.	V. o. d. = 0.2.
93	Female. 70 Amer. Rheumatic.	1 year. Senile. Normal.	Nov. 27, 1895. Cocaine. Normal. Nov. 29, bandage changed. Some chemosis. Pupil small. No anterior chamber. Dec. 2, much improved. Posterior synechia. Capsule in pupil. March 12, secondary operation. March 14, discharged. 29 days.	V. o. d. = 0.2.
94	Female. 60 Amer. Good.	6 years. Senile. Normal.	Dec. 4, 1895. Cocaine. Normal. Dec. 10, bandage removed. Pupil round. Slight injection. Dec. 13, piece of cortical two thirds filling anterior chamber. Pupil well dilated. Dec. 26, eye white. Capsule. 23 days.	V. o. d. = 0.2. Feb. 25, 1896. V. o. d. = 0.4—.
95	Female. 74 Amer. Good.	5 years. Senile. Normal. Has chronic Conjunctivitis.	Dec. 8, 1895. Cocaine. Normal. Dec. 10, bandage changed. Eye in good condition. Pain began later in afternoon and continued through night. Dec. 11, entire cornea hazy, yellow reflex in pupil. Chemosis. Dec. 12, panophthalmitis. Jan. 13, discharged. 36 days.	V. o. s. = o.
96	Female. 72 Amer. Good.	1½ years. Senile. Normal.	Dec. 12, 1895. Cocaine. Normal. Dec. 17, bandage removed. Eye white and quiet. Pupil round and central. Dec. 24, pupil small. Eye injected. Dec. 27, less injection. Dec. 31, capsule in pupillary area. Jan. 2, 1896. Capsule operation. 26 days.	V. o. d. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
97	Male. 67 Amer. Good.	2½ years. Senile. Normal.	Dec. 17, 1895. Cocaine. Normal. Dec. 25, bandage omitted. Pupil central. One posterior synechia. Eye white. 15 days.	V. o. d. = 0.2.
98	Male. 62 Amer. Good.	1½ years. Senile. Normal.	Dec. 20, 1895. Cocaine. Normal. Some cortical left in eye. Dec. 27, bandage omitted. Capsule. Pupil round and central. 19 days.	V. o. s. = 0.1—.
99	Male. 61 Amer. Good.	1½ years. Senile. Normal.	Jan. 7, 1896. Cocaine. Normal. Jan. 9, bandage removed. Pupil round and central. Jan. 14, bandage omitted. Jan. 22, eye white and quiet. 15 days.	V. o. d. = 0.2. April 30, 1896. V. o. d. = 0.7.
100	Male. 57 Amer. Good.	1½ years. Senile. Normal.	Jan. 30, 1896. Cocaine. Very little soft cortical. Bandage omitted on sixth day. Pupil good size, round and central. Some capsule. Feb. 14, discharged. March 16, secondary operation. 20 days.	V. o. d. = 0.5.
101	Male. 55 Ireland. Good.	5 months. Senile. Normal.	Feb. 5, 1896. Cocaine. Some opaque capsule in upper part of pupil. Bandage omitted on seventh day. Pupil large and a little irregular. Feb. 27, secondary. Good hole through capsule. 25 days.	V. o. d. = 0.1.
102	Male. 31 Canada. Good.	1 year. Senile. Normal.	Feb. 6, 1896. Bandage omitted on sixth day. Pupil central and well dilated. Normal recovery. 16 days.	V. o. d. = 0.2.
103	Female. 68 Amer. Good.	2 years. Senile. Normal.	Feb. 6, 1896. Cocaine. Operation normal. Bandage omitted on seventh day. Pupil well dilated and round. Some capsule. Feb. 25, secondary. 25 days.	V. o. s. = 0.2. March 27, 1896. V. o. s. = 0.5.
104	Female. 60 Engl'nd. Good.	2 years. Senile. Normal.	Feb. 8, 1896. Cocaine. Operation without incident. Feb. 15, bandage omitted. Iritis. March 7, some capsule in pupil. Pupil oval and well dilated. 33 days.	V. o. d. = 1-20.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
105	Male. 45 Austria. Good.	3 years. Senile. Normal.	March 7, 1896. Cocaine. Much soft cortical. Bandage omitted on eighth day. Pupil well dilated. March 18, eye white and quiet. Capsule in lower part of pupil. 14 days.	V. o. d.=0.3—.
106	Female. 58 Ireland. Good.	1½ years. Senile. Normal.	March 14, 1896. Cocaine. Considerable soft cortical. Bandage omitted on eighth day. Iritis. Deep anterior chamber. April 18, condition much improved. April 18, secondary operation. Clear hole through capsule. 42 days.	V. o. s. = 0.1.
107	Female. 76 Amer. Good.	10 years. Senile. Normal.	March 18, 1896. Cocaine. Fluid vitreous. Bandage omitted on eighth day. Moderate injection. Pupil one half dilated. Dense capsule. April 18, secondary operation. 34 days.	V. o. s. = 0.1.
108	Male. 58 Ireland. Good.	2 years. Senile. Normal.	April 23, 1896. Cocaine. Operation normal. Bandage omitted on eighth day. Pupil round and well dilated. Capsule. 12 days.	V. o. s.=0.4—.
109	Male. 50 Ireland. Good.	2 years. Senile. Normal.	May 5, 1896. Cocaine. Normal. Bandage omitted on eighth day. Prolapse of iris. May 21, Abscission of prolapse. June 6, eye white and quiet. 32 days.	V o. d. = 0.8.
110	Female. 75 Amer. Good.	5 years. Senile. Normal.	May 7, 1896. Cocaine. Bandage omitted on eighth day. Pupil well dilated. Some capsule. 19 days.	V. o. d. = 0.4.
111	Female. 63 Ireland. Good.	3 years. Senile. Normal.	May 16, 1896. Cocaine. Bandage omitted on eighth day. Iritis. Dense capsule. June 4, secondary. 27 days.	V. o. s. = 0.5.
112	Female. 50 Ireland. Good.	3 years. Senile. Normal. History of hæmorrhagic retinitis five days after operation.	May 19, 1896. Cocaine. Bandage omitted on eighth day. Iritis. June 25, eye white and quiet. Capsule. Secondary operation. 46 days.	V. o. s. = fingers. Membranes in vitreous.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
113	Female. 68 Amer. Good.	1 year. Senile. Normal.	May 21, 1896. Cocaine. Bandage omitted on eighth day. Pupil well dilated. Capsule. 14 days.	V. o. s. = 0.4. June 25, 1896. V. o. s. = 0.6.
114	Female. 80 Ireland. Good.	30 years. Senile. Normal.	June 12, 1896. Cocaine. Cornea collapsed after incision. Bandage omitted on eighth day. June 20, superficial ulcer cornea below. June 23, cornea clear. Eye white and quiet. 15 days.	V. o. s. = 0.1. Sept. 4, 1896. V. o. s. = 0.4.
115	Male. 72 Amer. Good.	1½ years. Senile. Normal.	June 12, 1896. Cocaine. Some soft cortical left in eye. June 15, chemosis and muco-purulent discharge, edges of wound infiltrated. Exudation in pupil. June 18, no infiltration of wound. July 29, eye quiet. Blocked pupil. 47 days.	V. o. s. = 0.
116	Male. 60 Canada. Good.	4 months. Senile. Normal.	June 30, 1896. Cocaine. Operation normal. July 7, pupil well dilated. July 8, hit eye during night. Pain. Pupil drawn down. July 15, pupil well dilated with one adhesion below. Capsule. July 30, secondary operation. 38 days.	V. o. d. = 0.4.
117	Male. 64 Amer. Good.	8 years. Senile. Functions doubtful. Nystagmus.	July 7, 1896. Cocaine. Bandage omitted on eighth day. Pupil round and well dilated. Dense capsule. July 21, discharged.	V. o. d. = fingers.
118	Female. 60 Engl'nd. Good.	7 months. Senile. Normal.	July 11, 1896. Cocaine. Bandage omitted on eighth day. Pupil round and central. Capsule. July 28, secondary operation. 26 days.	V. o. d. = 0.2.
119	Female. 72 Ireland. Good.	8 months. Senile. Normal.	July 11, 1896. Cocaine. Soft cortical left in eye. Patient behaved badly, and dressing was torn off a number of times. July 18, bandage omitted. Pupil filled with cortical, blood in anterior chamber. Aug. 10, anterior chamber still half filled with blood. Still under treatment.	V. o. s. = shadows.
120	Male. 50 Engl'nd. Good.	Not known. Senile. Normal.	July 18, 1896. Cocaine. July 24, prolapse of iris. July 30, prolapse abscised. 20 days.	V. o. d. = 0.2. Sept. 2, 1896. V. o. d. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
121	Male. 85 Ireland. Good.	5 years. Senile. Normal.	July 30, 1896. Cocaine. Bandage omitted on eighth day. Aug. 12, eye rather irritable. Pupil moderately dilated. 14 days.	Not taken.
122	Male. 44 Engl'nd. Good.	1 year. Senile. Normal.	Aug. 5, 1896. Cocaine. Bandage omitted on fifth day. Pupil central and well dilated. Capsule. 12 days.	V. o. d. = 0.4+.
123	Female. 58 Amer. Good.	6 years. Senile. Normal.	Aug. 13, 1896. Cocaine. Aug. 21, bandage omitted. Pupil round and central. Aug 22, struck eye during night. Hyphæma. Slight injection. Aug. 27, eye white and quiet. Slight hyphæma. 14 days.	V. o. d. = fingers. Cloudy. Vitreous.
124	Male. 77 Ireland. Good.	5 years. Senile. Normal.	Aug. 14, 1896. Cocaine. Large amount of soft cortical. Aug. 20, prolapse of iris. Pupil good size. Monocular bandage. Sept. 5, moderate injection. Prolapse flattening down. Capsule. Sept. 18, secondary operation. 50 days.	V. o. d. = 0.1.
125	Male. 40 Amer. Good.	Not known. Senile. Normal.	Aug. 27, 1896. Cocaine. Large amount of soft cortical. Sept. 3, pupil large, drawn upward. Iris incarcerated in wound. Thin capsule. 21 days.	V. o. d. = 0.1.
126	Female. 81 Scotl'nd. Good.	6 years. Senile. Normal.	Aug. 27, 1896. Cocaine. Considerable soft cortical. Very narrow anterior chamber. Bandage omitted on eighth day. Slight prolapse of iris. Capsule. Sept. 15, goes home against advice. 19 days.	Not taken.

TRAUMATIC AND OTHER CATARACTS NOT SENILE.

127	Male. 9 Canada. Good.	Congenital. Normal. V. o. d. = fingers	Sept. 7, 1895. Cocaine. Discission. Normal. Sept. 9, bandage omitted. Sept. 21, discharged. Nov. 12, second discission. Nov. 19, discharged. Dec. 8, third discission. Jan. 30, 1896, cortical rapidly absorbing. Feb. 5, discharged. 80 days.	V. o. d. = fingers.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
128	Male. 16 Engl'nd. Good.	Congenital. Posterior Polar. V. o. d. = 0.1.	Sept. 20, 1895. Cocaine. Discission. Normal. Sept. 22, bandage removed. Almost no reaction from operation. Sept. 28, eye white and quiet. Sept. 29, discharged. Nov. 6, second discission. Nov. 16, eye white and quiet. Discharged. Jan. 8, 1896, discission with Knapp's knife needle. Jan. 10, omitted bandage. Jan. 28, cortical removed by suction. Feb. 14, discharged. 56 days.	V. o. d. = 0.2.
129	Male. 21 Amer. Good.	4 months. Traumatic. One iritic adhesion to lens.	Oct. 2, 1895. Cocaine. Discission. Normal. Oct. 6, eye white. Monocular bandage. 5 days.	V. o. d. = shadows.
130	Male. 49 Engl'nd. Good.	8 months. Traumatic. Iris discolored and does not react well. Projection poor.	Oct. 11, 1895. Cocaine. Modified Graefe extraction. After iridectomy globe collapsed to such an extent that it was impossible to express the lens. Lens soft. Oct. 13, bandage removed. Considerable œdema of lids and chemosis. Oct. 16, eye much improved. Less œdema of lids and chemosis. No pain. Lens material in anterior chamber. Nov. 5, eye steadily improving. Nearly white. 26 days.	V. o. s. = shadows.
131	Male. 19 Amer. Good.	Capsular. Normal.	Oct. 23, 1895. Cocaine. Discission. Normal. Oct. 25, bandage removed. Eye quiet. Nov. 2, eye quiet. Discharged. 11 days.	V. o. d. = 0.1.
132	Male. 45 Ireland. Good.	Probably secondary to inflammatory change. Projection and perception poor. o. s. blocked pupil. History separation of retina o. u.	Oct. 22, 1895. Cocaine. Modified Graefe. Lens extracted with scoop. Oct. 30, bandage changed daily since operation. Omitted to-day. Nov. 4, capsule in pupil. Nov. 9, eye white and quiet. Discharged. 19 days. Nov. 13, patient returned with iritis. T. — 1.	V. o. d. = shadows.
133	Female. 74 Amer. Good.	Capsular.	Oct. 30, 1895. Cocaine. Capsule operation. Normal recovery. 2 days.	V. o. d. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
134	Male. 48 Engl'nd. Good.	Congenital. Normal.	Nov. 7, 1895. Cocaine. Discission with knife needle. Normal. Patient proved refractory and was discharged against advice, before sufficient notes could be taken. Discharged Nov. 8. 1 day.	V. o. s. = not taken.
135	Male. 17 Amer. Good.	Lamellar Cataract. Iris discolored. Normal.	Nov. 19, 1895. Cocaine. Discission. Normal. Nov. 22, bandage removed. Nov. 26, eye white and quiet. Discharged. Dec. 16, second discission. Jan. 7, 1896. Third discission. Jan. 16, fourth discission. Jan. 22, a quantity of clear lens matter in pupil that shows little tendency to absorb. Discharged. June 4, 1896. Flap incision, large mass of opaque capsule removed with forceps. June 25, clear pupil. Floating masses in vitreous. 48 days.	V. o. s. = fingers. 2 feet.
136	Male. 64 Amer. Good.	Secondary Cataract. Eye operated on 3 years ago. Normal.	Nov. 16, 1895. Cocaine. Secondary operation. Normal. Nov. 17, omitted bandage. Nov. 18, eye white and quiet. Discharged. 3 days.	V. o. d. = 0.2.
137	Male. 39 Asia. Good.	1 year. Traumatic. Question of foreign body in eye. Normal.	Dec. 12, 1895. Cocaine. Modified Graefe. Normal. Bandage changed on Dec. 15, some mucous discharge. Dec. 21, eye white, cornea cloudy. Dec. 27, posterior synechia, but pupil good size, cornea clear. Jan. 2, 1896, secondary operation. Capsule divided vertically. 27 days.	V. o. d. = 0.3 (estimated). Patient illiterate.
138	Male. 67 Amer. Good.	Probably secondary. Sympathetic inflammation. Blocked pupil. Has had iridectomy. Functions good.	Dec. 25, 1895. Cocaine. Modified Graefe. Very large iridectomy. Lens rotated out with hook. Lens mostly transparent. Dec. 27, anterior chamber re-established. Much flocculent material in pupil, cornea clear. Dec. 31, omitted bandage, cornea slightly hazy. Pupil drawn upward and outward and gradually contracting. Jan. 27, 1896, eye white, cornea clear. Pupil very small. 32 days.	V. o. d. = fingers.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
139	Male. 26 Amer. Good.	1 month. Traumatic. Lens perforated by steel. Normal.	Dec. 25, 1895. Cocaine. Suction operation. Normal. No cortical left Dec. 26, bandage omitted, pupil clear. Cornea somewhat hazy. Dec. 31, pupil contracting. Some capsule. Jan. 8, 1896, first secondary. Jan. 22, second secondary. Feb. 12, third secondary. Feb. 14, large hole in capsule. 55 days.	V. o. s. = 0.6.
140	Male. 16 Ireland. Good.	Capsular. Anterior synechia. Pupil drawn down and out. Functions good.	Jan. 8, 1896. Cocaine. Capsule divided with broad needle. Jan. 10, bandage omitted, good hole through capsule. Jan. 17, eye white and quiet. 10 days.	V. o. d. = 0.4.
141	Male. 8 Amer. Good.	Congenital. Normal.	Jan. 10, 1896. Cocaine. Discission. Normal. Jan. 12, omit bandage. Jan. 17, eye white. Pupil well dilated. Lens substance in anterior chamber. Feb. 13, suction operation. One half cortical removed. 49 days.	V. o. s. = fingers. July 30, 1896. V. o. s. = 0.4.
142	Male. 10 Amer. Good.	8 years. Traumatic. Normal.	Jan. 12, 1896. Cocaine. Discission. Normal. Jan. 14, bandage omitted. Pupil well dilated. Jan. 28, second discission. Feb. 28, eye white and quiet. Lens matter slowly absorbing. 37 days.	V. o. s. = light.
143	Female. 21 Canada. Good.	Congenital. Projection poor except at temporal side.	Jan. 12, 1896. Cocaine. Discission. Normal. Capsule calcareous. Jan. 14, bandage omitted. Dense capsule filling pupil. Jan. 22, incision as for simple extraction. Vitreous presented. Capsule firmly adherent. Large hole made through capsule. Jan. 23, considerable pain. Jan. 24, wound well closed. Pupil round. Jan. 27, omitted bandage. Clear vertical slit through capsule. 21 days.	V. o. s. = fingers. March 10. V. o. s. = fingers.
144	Female. 20 Amer. Good.	Congenital. Central leucoma. Poor projection.	Jan. 16, 1896. Cocaine. Modified Graefe. Iris prolapsed after incision. Lens calcareous. Jan. 23, bandage omitted. Feb. 1, slight infiltration of cornea. Feb. 10, eye white and quiet. No capsule. Opacities in vitreous. 25 days.	V. o. d. = fingers.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
145	Female. 75 Amer. Good.	Capsular. Pupil adherent to capsule. Normal.	Jan. 17, 1896. Cocaine. Division of capsule with Knapp's knife needle. Operation normal. Bandage omitted on third day. Small hole through capsule. Eye quiet. 10 days.	V. o. d. = 0.4.
146	Male. 27 Ireland. Good.	Traumatic. Swollen cortical almost fills anterior chamber. Normal.	Jan. 23, 1896. Cocaine. Suction operation. Cortical almost entirely removed. Jan. 27, bandage omitted. Very little injection. Large pupil. Some cortical. 15 days.	V. o. d. = 0.7.
147	Male. 34 Canada. Good.	Capsular. Pupil adherent to capsule. Normal.	Jan. 23, 1896. Cocaine. Secondary with Knapp's knife needle. Bandage omitted on second day. Eye white and quiet. Feb. 2, secondary operation. Clear hole through capsule. 18 days.	V. o. s. = 0.3.
148	Male. 23 Canada. Good.	Capsular. Injury 8 months ago. Lens substance absorbed. Normal.	Jan. 30, 1896. Cocaine. Secondary with Knapp's knife needle. Bandage omitted second day. Good hole through capsule. 6 days.	V. o. s. = 0.1.
149	Male. 25 France. Good.	3 weeks. Traumatic. Lens swollen and fills lower part of anterior chamber.	Feb. 4, 1896. Cocaine. Suction operation. Most of cortical escaped on withdrawing broad knife. Bandage omitted on third day. Pupil clear and of fair size. Some capsule. 42 days.	V. o. d. = 0.5.
150	Male. 22 Amer. Good.	1 year. Traumatic. Functions nil. Operation for cosmetic effect.	Feb. 8, 1896. Cocaine. An attempt was first made to remove lens substance by suction, but it was not sufficiently soft. Discission. Iris prolapsed, but was replaced. Bandage omitted on third day. Pupil well dilated and nearly round. Feb. 27. Entire pupil still filled with cortical. 20 days.	V. o. s. = 0.
151	Male. 10 Amer. Good.	2 years. Traumatic. Normal.	Feb. 12, 1896. Cocaine. Discission. Normal operation. Bandage omitted third day. Almost no reaction. Pupil well dilated. March 25, eye white and quiet. Cortical gradually absorbing. 57 days.	V. o. d. = shadows.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
152	Male. 51 Canada. Good.	1½ years. Secondary to Glaucoma. Has slight perception of light, no projection. Posterior synechia.	Feb. 20, 1896. Cocaine. Modified Graefe. Anterior chamber shallow. In making incision, iris punctured. Attachment between iris and lens divided with scissor forceps. Large iridectomy. Feb. 27, monocular bandage. Iris slightly caught in wound. Eye white and quiet. 28 days.	V. o. s. = shadows. Glaucoma.
153	Male. 31 Amer. Good.	2½ years. Traumatic. Good.	March 6, 1896. Cocaine. Modified Graefe. Iritic adhesions divided with cystatome. Bandage omitted on seventh day. Pupil filled with dense capsule. 25 days.	V. o. s. = fingers.
154	Male. 25 Amer. Good.	2 weeks. Traumatic. Lens swollen. Normal.	March 19, 1896. Cocaine. Linear extraction. Cortical ran out after incision. Capsule and some cortical left. Bandage omitted on third day. Pupil well dilated. Moderate injection. 15 days.	V. o. s. = fingers 2 feet. April 6, 1896. V. o. s. = shadows.
155	Male. 9 Canada. Good.	Congenital. Lamellar. Normal.	March 23, 1896. Cocaine. Discission. Vertical cut through capsule. March 26, eye white and quiet. 3 days.	V. o. s. = fingers 10 feet.
156	Male. 48 Canada. Good.	5 months. Traumatic. Normal.	March 23, 1896. Cocaine. Discission. Posterior synechia separated with needle. Bandage omitted on following day. 8 days.	V. o. s. = shadows.
157	Female. 29 Amer. Good.	10 years. Normal.	March 24, 1896. Cocaine. Modified Graefe. Lens substance sticky. Bandage omitted on eighth day. Slight injection. Thin capsule. 8 days.	V. o.d. = 0.2 —
158	Male. 42 Amer. Good.	3 years. Secondary to iritis. Blocked pupil. Has had iridectomy downwards. V. = fingers. Normal.	March 20, 1896. Ether. Corneal section downward. Knife forced through and divided iris. Lens removed after division of iritic adhesions without difficulty. Lens partially transparent. On attempt to remove opaque capsule in pupil there was escape of fluid vitreous. No bleeding at any stage of operation. April 12, wound not closed. Some pain. Bandage omitted on seventh day. Wound closed. No injection. No capsule in coloboma. 22 days.	V. o. s. = shadows.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
159	Male. 5 Amer. Good.	Congenital. Normal.	April 22, 1896. Cocaine. Discission. Bandage omitted on second day. April 29, eye quiet. Cortical absorbing. 7 days.	V. o. s. = shadows.
160	Male. 24. Canada. Good.	1 year. Probably traumatic. Perforation in outer side of iris.	May 6, 1896. Cocaine. Short linear incision. Incision made through capsule. No opaque cortical found and capsule seemed to be an empty shell. Bandage omitted on third day. Pupil well dilated. May 22, attempted removal of soft cortical. Escape of bead of vitreous. May 22, pupil well dilated. Eye white and quiet. 23 days.	V. o. s. = P. L.
161	Male. 22 Amer. Good.	1½ years. Traumatic. Normal.	May 15, 1896. Cocaine. Simple extraction. Normal operation. May 18, bandage omitted. Pupil round and central. 12 days.	V. o. s. = 0.4. June 25, 1896. V. o. s. = 0.7.
162	Female. 12 Amer. Good.	Congenital. Lamellar. May 26. Normal.	May 16, 1896. Cocaine. Discission. Bandage omitted on third day. Pupil widely dilated. Lens not much swollen. Second discission. July 25, third discission. 22 days.	V. o. d. = P. L. Sept. 15, 1896. V. o. d. = fingers.
163	Male. 25 Ireland. Good.	5 years. Probably traumatic. Capsule calcareous. No projection. No perception, except in temporal part of field.	June 3, 1896. Cocaine. Discission with Knapp needle. Central part of capsule could not be cut. Bandage omitted on third day. Pupil well dilated. June 19, corneal incision with broad needle. Capsule freed and removed with forceps. One half cortical removed by suction. July 15, cortical nearly absorbed. 44 days.	V. o. d. = 0.1.
164	Female. 2 Amer. Poor. Chronic meningitis (?).	Congenital.	June 5, 1896. Ether. (Primary anæsthesia.) Discission. Developed acute lobar pneumonia in the afternoon, and died on the following day.	Died.
165	Male. 25 Canada. Good.	5 months. Traumatic. Posterior synechia. Normal.	June 12, 1896. Cocaine. Suction operation. All lens substance removed. Bandage omitted on following day. Pupil well dilated. 4 days.	V. o. s. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
166	Male. 16 Engl'nd. Good.	Congenital. Normal.	June 19, 1896. Cocaine. Discission. Bandage omitted on following day. July 1, second discission. July 5, considerable cortical in anterior chamber. July 17, suction operation. All cortical removed. Vitreous presented and snipped off. July 18, roughening of cornea. July 24, pupil dilated. Capsule. 39 days.	V. o. s. = 0.2.
167	Male. 34 Amer. Good.	5 months. Traumatic. Normal.	July 9, 1896. Cocaine. Modified Graefe. Lens extracted almost entire with steel in lens substance. July 15, patient hit eye during night. Anterior chamber evacuated. July 16, anterior chamber re-established. 12 days.	V. o. s. = 0.5. Sept. 1, 1896. V. o. s. = 1.0.
168	Female. 2 Amer. Good.	Congenital.	July 24, 1896. Cocaine. Discission with Knapp's knife needle. Bandage omitted on following day. Pupil widely dilated. Aug. 13, discission. Aug. 18, cortical slowly absorbing. 28 days.	Not taken.
169	Male. 40 Engl'nd. Good.	3 years. Traumatic. Normal.	July 31, 1896. Cocaine. Extraction. Lens hard and small. Capsule came with lens. Bandage omitted on seventh day. Pupil round and central. 12 days.	V. o. d. = 0.3.
170	Male. 19 Amer. Good.	6 weeks. Traumatic. Normal.	Aug. 21, 1896. Cocaine. Discission with Knapp's knife needle. Sept. 5, eye white and quiet. Cortical absorbing. 50 days.	V. o. d. = 0.1.
171	Male. 10 Amer. Good.	3 months. Traumatic. Normal.	Aug. 26, 1896. Cocaine. Suction operation. Bandage omitted on third day. Absorption going on slowly. 10 days.	V. o. d. = fingers.
172	Male. 19 Amer. Good.	6 weeks. Traumatic. Normal.	Aug. 28, 1896. Cocaine. Discission with Knapp's knife needle. Capsule very tough. Bandage only during nights. Sept. 13, eye white and quiet. Cortical absorbing slowly. 19 days.	V. o. d. = shadows.

REPORT OF AURAL SURGEONS.

The Board of Aural Surgeons respectfully submits the accompanying statistical report of their work during the year ending September 30, 1896, to which is added a table of Mastoid Operations compiled from the records with considerable care by the house-officer, Dr. Amberg. Such a table calls attention to the large number of serious cases which are thrust upon the Infirmary, now that its ability to care for them in the best methods of modern surgery are becoming known to the profession and the public ; it was predicted in these reports several years ago.

The aim of the Surgeons to constantly improve the character of the service has been ably assisted by the Superintendent, house-officers, and nurses. In all its appointments and appliances, except the building which is inadequate in space for the Out-patient Clinic, and not equal to modern sanitary requirements, it is thought the Infirmary will now compare most favorably with similiar institutions anywhere. The recent addition of the Edison current has already proved most useful in the operating room, and will be still more so when all the appliances, small head-lights, motor, and cautery, now in course of preparation, have been fully arranged for both operating-room and clinic room.

J. ORNE GREEN, M. D.,
For the Board of Aural Surgeons.

October 23, 1896.

DISEASES OF HOUSE-PATIENTS.

I. MORBI AURIS EXTERNÆ.

1. Auriculæ.

a. *Inflammationes.*

	A. D.	A. U.	A. S.
Abscessus post auriculam	0	0	1
Eczema	1	0	0
Trauma	0	0	1
Tauma lobuli	0	0	1

b. *Deformitates.*

Fistula auris congenita	1	0	0

c. *Neoplasmata.*

Epithelioma auriculæ	1	0	1
Epithelioma lobuli	0	0	1
Cystis inflammata	0	0	1
Fibroma	0	1	0

2. Meatus-cutis.

a. *Anomaliæ Secretionum.*

Accumulatio ceruminis	0	0	3

b. *Inflammationes.*

Otitis externa diffusa	1	0	0
Otitis externa diffusa cum abscessu cervicis	0	0	1
Otitis externa diffusa et circumscripta	0	0	1
Otitis externa diffusa desquamativa	1	0	3
Otitis externa diffusa follicularis	1	0	2

c. *Neoplasmata.*

Corpus adventitium inanimale	0	0	3

d. *Deformitates.*

Atresia acquisita	1	0	0

II. MORBI AURIS MEDIÆ.

3. Tympani, Tubæ Eustachii et Portionis mastoideæ.

a. *Otitis Catarrhalis Secernens.*

Otitis catarrhalis secernens mucusa chronica	0	0	1
Otitis catarrhalis secernens mucosa chronica cum hyperplasia tonsillæ pharyngeæ	0	1	0
Otitis catarrhalis mucosa chronica	1	3	1
Otitis catarrhalis mucosa chronica cum hyperplasia tonsillæ pharyngeæ	0	2	0

b. *Otitis catarrhalis adhæsiva.*

	A. D.	A. U.	A. S.
Otitis catarrhalis adhæsiva secernens	0	1	0
Otitis catarrhalis adhæsiva insidiosa	1	0	1

c. *Otitis media acuta.*

Otitis media acuta simplex	4	3	3
Otitis media acuta cum otitide externa circumscripta et diffusa	0	0	2
Otitis media acuta cum paralyse nervi facialis	1	0	0
Otitis media acuta cum ostitide portionis mastoideæ	4	0	0

d. *Otitis media suppurativa.*

Otitis media suppurativa acuta	14	6	9
Otitis media suppurativa acuta traumatica	1	0	0
Otitis media suppurativa acuta cum otitide externa folliculari	1	0	1
Otitis media suppurativa acuta cum otitide externa diffusa	0	0	1
Otitis media suppurativa acuta cum otitide externa desquamativa,	1	0	0
Otitis media suppurativa acuta cum paralyse nervi facialis	1	0	0
Otitis media suppurativa acuta cum ostitide portionis mastoideæ,	16	1	16
Otitis media suppurativa acuta cum ostitide portionis mastoideæ et otitide externa diffusa	0	0	1
Otitis media suppurativa acuta cum ostitide portionis mastoideæ et abscessu cervicis	0	0	1
Otitis media suppurativa acuta cum ostitide portionis mastoideæ et fistula in meatum	1	0	0
Otitis media suppurativa acuta cum carie portionis mastoideæ	3	0	4
Otitis media suppurativa acuta cum carie portionis mastoideæ et meatus	1	0	1
Otitis media suppurativa acuta cum carie portionis mastoideæ et fistulis in fossam digastricam	1	0	0
Otitis media suppurativa acuta cum carie portionis mastoideæ et abscessu extra duram	0	0	1
Otitis media suppurativa acuta cum meningitide	0	0	1
Otitis media suppurativa chronica	14	2	15
Otitis media suppurativa chronica cum otitide externa folliculari	1	0	2
Otitis media suppurativa chronica cum granulatione et carie meatus	0	0	1
Otitis media suppurativa chronica cum carie meatus	1	0	0
Otitis media suppurativa chronica cum granulatione tympani	1	0	0
Otitis media suppurativa chronica cum granulatione et polypo tympani	2	0	0
Otitis media suppurativa chronica cum polypo tympani	5	1	0
Otitis media suppurativa chronica cum polypo tympani et meatus	1	0	1
Otitis media suppurativa chronica cum polypo tympani et carie ossiculorum	1	0	7
Otitis media suppurativa chronica cum carie ossiculorum	4	1	1

	A. D.	A. U.	A. S.
Otitis media suppurativa chronica cum carie ossiculorum et morbo cerebri	0	0	1
Otitis media suppurativa chronica cum carie tympani	2	0	0
Otitis media suppurativa chronica cum carie epitympani	0	0	2
Otitis media suppurativa chronica cum abscessu prae auriculam	0	0	1
Otitis media suppurativa chronica cum abscessu post auriculam	3	0	6
Otitis media suppurativa chronica cum ostitide portionis mastoideæ	11	1	12
Otitis media suppurativa chronica cum otitide media acuta cum ostitide portionis mastoideæ	0	0	1
Otitis media suppurativa chronica cum ostitide portionis mastoideæ cum abscessu cervicis	1	0	0
Otitis media suppurativa chronica cum carie portionis mastoideæ	11	0	7
Otitis media suppurativa chronica cum empyema portionis mastoideæ	1	0	0
Otitis media suppurativa chronica cum carie ossis temporalis	1	0	3
Otitis media suppurativa chronica cum necrose portionis mastoideæ et fistulis in fossam digastricam	1	0	0
Otitis media suppurativa chronica cum necrose ossis temporalis,	1	0	0
Otitis media suppurativa chronica cum meningitide tuberculosa,	1	0	1
Otitis media suppurativa chronica cum abscessu cerebelli	1	0	0
Effectus otitidis mediæ suppurativæ	4	2	2
Effectus otitidis mediæ suppurativæ cum carie meatus	1	0	0
Effectus otitidis mediæ suppurativæ cum periostitide portionis mastoideæ	1	0	0
Effectus otitidis mediæ suppurativæ cum hyperplasia tonsillæ pharyngeæ et surdomutitate	0	1	0
Effectus otitidis mediæ suppurativæ cum morbo labyrinthi	0	1	0

III. MORBI LABYRINTHI ET ACUSTICI.

Morbus nervi acustici	2	1	0
Labyrinthitis	2	0	0
Panotitis cum meningitide	1	0	0
Surdomutitas cum hyperplasia tonsillæ pharyngeæ	0	1	1

NUMBER OF HOUSE-PATIENTS.

Male	146
Female	139
	285

AURAL OPERATIONS.

PARS. MORBUS, OPERATIO.

1. Auricula.

	A. D.	A. U.	A. S.
Auricula, abscessus, incisio	2	0	1
Auricula, epithelioma, remotio	1	0	1
Auricula, epithelioma, totius auriculæ remotio	0	0	1
Auricula, hæmatoma, remotio	2	0	1
Concha, abscessus, incisio	0	0	1
Tragus, abscessus, incisio	0	0	1
Lobulus, cystis, remotio	1	1	4
Fistula auris congenita, excisio	1	0	0

2. Meatus.

Otitis externa desquamativa, remotio	0	0	2
Meatus, abscessus, incisio	13	1	10
Otitis externa follicularis, incisio	14	0	15
Meatus, polypus, remotio	0	0	2
Meatus, caries, remotio	1	0	0
Corpus adventitium, remotio	5	0	1
Corpus adventitium, ablatio auriculæ temporaria	0	0	1
Corpus adventitium auriculæ	1	0	0

3. Tympanum.

Membrana tympani, bulla, incisio	2	0	1
Membrana tympani, paracentesis	159	16	60
Malleus, caries, remotio	3	0	0
Incus, caries, remotio	1	0	0
Malleus et Incus, caries, remotio	8	0	6
Tympanum, granulationes, remotio	2	0	6
Tympanum, necrosis, remotio	0	0	2
Tympanum, polypus, remotio	52	2	54
Musculus stapedius, tenotomia	1	0	0

4. Nasus et Pharynx.

Concha hypertrophica, remotio	1	0	0
Septum, exostosis, remotio	1	0	0
Nasus, polypus, remotio	17	2	1
Tonsilla, hyperplasia, remotio	1	0	2
Tonsilla pharyngea, hyperplasia, remotio	0	94	0
Tonsilla, hyperplasia, tonsilla pharyngea, hyperplasia, remotio	0	3	1

5.

Abscessus post auriculam, incisio	1	0	6
Abscessus sub auricula, incisio	0	0	1
Abscessus cervicis, incisio	0	0	1
Portionis mastoideæ, etc., operationes (see special report)	40	0	33

6. Miscellaneous.

Trepanatio ossis temporalis, acupunctura cerebri explorativa		0	1
Various operations		5	0

DISEASES OF OUT-PATIENTS.

I. MORBI AURIS EXTERNÆ.

1. Auriculæ.

a. *Congestiones, activæ.*

	A. D.	A. U.	A. S.
Congelatio	0	0	3

b. *Inflammationes.*

Abscessus,	6	0	1
Abscessus, conchæ	0	0	1
Dermatitis erysipelatosa	0	0	1
Eczema	9	13	10
Acne	0	1	0
Herpes zoster	1	0	3
Intertrigo	2	2	2
Hæmatoma idiopathicum	1	0	0
Hæmatoma traumaticum	4	0	2

c. *Deformitates.*

Polyotia	0	0	1
Microtia	1	0	0
Fistula auris congenita	1	1	0

d. *Neoplasmata.*

Cystis auriculæ	2	0	1
Cystis lobuli	1	0	3
Fibroma	1	0	0
Papilloma	1	0	2
Epithelioma	1	0	1

e. *Trauma.*

Trauma auriculæ	0	0	3
Trauma lobuli	0	0	1

2. Meatus-cutis.

a. *Anomaliæ Secretionum.*

Accumulatio ceruminis	362	592	312

b. *Trauma.*

Trauma indirectum	1	0	0

c. *Inflammationes.*

Abscessus	7	0	6
Eczema	5	27	6
Eczema et eczema auriculæ	1	1	0

	A. D.	A. U.	A. S.
Otitis externa diffusa acuta	30	19	30
Otitis externa diffusa chronica	1	14	6
Otitis externa diffusa cum ostitide portionis mastoideæ	1	0	0
Otitis externa follicularis	60	8	50
Corpus adventitium animale	5	0	11
Corpus adventitium inanimale	18	1	14
Corpus adventitium inanimale cum trauma membranæ tympani	1	0	0
Pruritus	4	0	1

d. *Deformitates.*

Atresia	2	1	0

3. MEATUS-OSSIS.

Caries	1	0	0
Exostosis circumscripta	0	0	1
Osteoma	0	0	1
Fractura	1	0	0
Fractura fossae glenoidalis	1	0	0

II. MORBI AURIS MEDIÆ.

1. MEMBRANÆ TYMPANI.

Trauma directum	2	0	2
Trauma indirectum	3	2	7

2. TYMPANI, TUBÆ EUSTACHII ET PORTIONIS MASTOIDEÆ.

a. *Otitis Catarrhalis Secernens.*

Otitis catarrhalis secernens mucosa acuta	54	71	54
Otitis catarrhalis secernens mucosa acuta cum hyperplasia tonsillæ pharyngeæ	2	12	2
Otitis catarrhalis secernens mucosa chronica	85	248	116
Otitis catarrhalis secernens mucosa chronica cum hyperplasia tonsillæ pharyngeæ	0	42	2
Otitis catarrhalis secernens mucosa chronica cum labyrinthitide	0	1	0
Otitis catarrhalis mucosa chronica	103	374	146
Otitis catarrhalis mucosa chronica cum labyrinthitide	0	2	0
Otitis catarrhalis mucosa chronica cum hyperplasia tonsillæ pharyngeæ	2	19	1

b. *Otitis Catarrhalis Adhæsiva.*

Otitis catarrhalis adhæsiva ex secernente	21	149	45
Otitis catarrhalis adhæsiva ex secernente cum hyperplasia tonsillæ pharyngeæ	1	11	0

	A. D.	A. U.	A. S.
Otitis catarrhalis adhæsiva insidiosa	52	134	53
Otitis catarrhalis adhæsiva insidiosa cum hyperplasia tonsillæ pharyngeæ	0	1	0
Otitis catarrhalis adhæsiva insidiosa cum morbo labyrinthi	0	5	0
c. *Otitis Media Acuta.*			
Otitis media acuta simplex	257	116	262
Otitis media acuta cum bulla	1	0	0
Otitis media acuta cum hyperplasia tonsillæ pharyngeæ	5	4	1
d. *Otitis Media Suppurativa.*			
Otitis media suppurativa acuta	123	25	126
Otitis media suppurativa acuta cum carie portionis mastoideæ	1	0	0
Otitis media suppurativa acuta cum ostitide portionis mastoideæ,	14	1	13
Otitis media suppurativa chronica	332	172	323
Otitis media suppurativa chronica cum carie portionis mastoideæ,	3	0	1
Otitis media suppurativa chronica cum carie ossiculorum	7	0	2
Otitis media suppurativa chronica cum granulatione tympani	25	15	24
Otitis media suppurativa chronica cum polypo tympani	32	3	31
Otitis media suppurativa chronica cum hyperplasia tonsillæ pharyngeæ	2	3	3
Otitis media suppurativa chronica cum abscessu post auriculam	3	0	3
Otitis media suppurativa chronica cum ostitide portionis mastoideæ	10	0	8
Otitis media suppurativa chronica cum polypo et ostitide portionis mastoideæ	0	0	1
Otitis media suppurativa chronica cum carie epitympani	0	1	1
Otitis media suppurativa chronica cum meningitide	1	1	1
Effectus otitidis mediæ suppurativæ	193	199	161
Effectus otitidis mediæ suppurativæ cum hyperplasia tonsillæ pharyngeæ	1	6	1
Surditas senilis	0	1	0
e. *Tuba Eustachii.*			
Catarrhus tubæ Eustachii	2	3	2
3. Neuroses Auris Mediæ.			
Otalgia dentalis	21	10	21
Otalgia nasalis	4	2	7
Otalgia neuralgica	14	2	20
Otalgia pharyngealis	0	0	2
III. MORBI LABYRINTHI ET ACUSTICI.			
Concussio Labyrinthi	5	0	1
Labyrinthitis	6	5	2
Hæmorrhagia labyrinthi	1	0	0

	A. D.	A. U.	A. S.
Morbus acustici	0	1	1
Hyperæsthesia acustici	2	0	2
Contractiones muscul. tympani	0	0	1
Panotitis	0	2	1
Propriæ notæ Ménière	1	2	2
Trauma labyrinthi	1	0	0
MISCELLANEOUS.			
Hyperplasia tonsillæ pharyngeæ	0	3	0
Surdo-mutitas	0	13	0
Eloped	0	24	0
No diagnosis	0	40	0
No ear disease	0	112	0
Unfit patients	0	114	0

STATISTICS, OCT. 1, 1895, TO OCT. 1, 1896.

EAR PATIENTS.

Males.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sep.	Total
Births to 3 years.....	12	10	12	10	7	6	23	15	9	8	6	15	133
3 yrs. to 15 "	48	37	40	37	41	44	63	49	40	37	59	39	534
15 " " 25 "	22	45	47	65	53	68	40	58	76	62	94	38	668
25 " " 35 "	49	43	47	50	67	80	71	59	64	70	87	42	729
35 " " 45 "	24	29	33	30	23	51	51	46	42	39	60	35	463
45 " " 55 "	26	12	22	23	31	24	34	20	33	36	36	24	321
55 " " 65 "	12	8	18	12	13	21	15	19	21	23	19	17	198
65 " " 75 "	12	7	9	7	7	8	7	5	14	7	12	8	103
75 " " 85 "	2	5	1	0	0	2	1	0	2	1	3	2	19
85 " " 95 "	0	0	1	0	0	0	0	1	0	0	0	1	3
													3,171

Females.

Births to 3 years.....	7	12	5	8	5	13	20	24	13	6	3	11	127
3 yrs. to 15 "	43	52	36	45	41	51	55	64	51	43	45	30	556
15 " " 25 "	43	31	35	33	65	52	42	37	61	37	70	38	544
25 " " 35 "	37	42	33	40	39	45	43	40	38	49	51	38	595
35 " " 45 "	25	28	11	21	19	15	29	25	19	23	26	18	259
45 " " 55 "	20	18	14	18	15	10	15	14	22	17	20	20	203
55 " " 65 "	8	11	8	15	5	7	11	17	15	9	10	9	125
65 " " 75 "	12	2	4	1	2	1	7	4	3	3	3	4	46
75 " " 85 "	2	3	0	2	1	1	2	0	1	3	2	2	19
85 " " 95 "	0	0	0	0	0	0	0	0	0	0	0	0	0
													2,374

Residences.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sep.	Total
Residents of Boston....	203	194	189	211	228	244	254	258	281	235	294	196	2,787
Massachusetts.....	189	193	181	196	197	246	261	231	232	231	300	190	2,647
Maine.....	4	2	0	3	1	1	4	2	2	1	2	2	24
New Hampshire....	4	3	4	5	7	4	6	4	5	2	2	2	48
Vermont.....	1	1	1	1	1	2	1	0	2	1	0	1	12
Rhode Island.....	0	1	0	0	0	1	1	1	2	0	1	0	7
Connecticut.....	0	0	0	0	0	0	2	0	0	1	0	0	3
Other States.....	3	1	1	0	0	0	0	1	0	2	5	0	13
British Provinces.....	0	0	0	1	0	1	0	0	0	0	2	0	4

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug	Sep.	Total
New Patients.....	404	395	376	417	434	499	529	497	524	473	606	391	5,545
Old Patients.....	1,548	1,433	1,420	1,576	1,560	1,640	1,772	1,850	1,595	1,461	1,467	1,234	18,556
Totals.....	1,952	1,828	1,796	1,993	1,994	2,139	2,301	2,347	2,119	1,934	2,073	1,625	24,101

ANALYSIS OF MASTOID OPERATIONS.

PRELIMINARY REMARKS TO REPORT OF MASTOID OPERATIONS.

By "improved," it must be understood that the patient was practically well, except where the contrary is shown by "remarks"; *i. e.*, the wound not being perfectly healed and requiring attendance in the out-patient department until complete closure.

Exceptions are shown under remarks.

No.	Sex.	Age.	Clinical Diagnosis.	Operation.	Duration of Treatment. Days.	Result.	Remarks.
1	Male.	19	A. S. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Paracentesis. Remotio cariei portionis mastoideæ.	Since admission, 19 Since operation, 19	Improved.	Discharged with collodion dressing.
2	Female.	22	A. S. Otitis media suppurativa acuta cum meningitide.	Paracentesis. Apertio antri.	Since admission, 3 Since operation, 3	Dead.	Chill; nausea before operation.
3	Male.	13	A. D. Otitis media suppurativa acuta cum carie portionis mastoideæ et meatus.	Remotio cariei portionis mastoideæ.	Since admission, 17 Since operation, 14	Improved.	Discharged with collodion dressing.
4	Male.	36	A. D. Otitis media suppurativa acuta cum carie portionis mastoideæ.	Remotio cariei portionis mastoideæ.	Since admission, 19 Since operation, 13	Improved.	Discharged with collodion dressing.
5	Male.	32	A. D. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Exenteratio tympani et portionis mastoideæ.	Since admission, 159 Since operation, 158	Improved.	Phthisis pulmonum. Died in mid-summer, 1896, outside the hospital.
6	Female.	56	A. D. Otitis media suppurativa acuta cum necrose portionis mastoideæ cum fistulis in fossam digastricam.	Remotio necrosis portionis mastoideæ. Expositio sinus lateralis.	Since admission, 25 Since operation, 24	Improved.	Sequestrum removed from sigmoid groove. Discharged with collodion dressing.

7	Female.	32	A. S. Otitis media suppurativa acuta cum carie portionis mastoideæ.	Paracentesis. Remotio cariei portionis mastoideæ.	Since admission, 40 Since operation, 37	Improved.	Profuse venous hemorrhage during operation, probably from lateral sinus. Discharged with collodion dressing.
8	Male.	31	A. S. Otitis media suppurativa acuta cum carie portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 45 Since operation, 24	Improved.	
9	Female.	4	A. S. Otitis media suppurativa acuta cum carie portionis mastoideæ.	Remotio cariei portionis mastoideæ.	Since admission, 66 Since operation, 56	Improved.	
10	Male.	14	A. S. Otitis media suppurativa acuta cum carie portionis mastoideæ.	Paracentesis Apertio antri.	Since admission, 27 Since operation, 24	Improved.	Discharged with collodion dressing.
11	Male.	26	A. D. Otitis media suppurativa chronica cum abscessu cerebelli.	Apertio antri. Acupunctura sinus lateralis explorativa.	Since admission, 2 Since operation, 2	Dead.	Otitis media suppurativa for twenty years. For four weeks dizziness and nausea. Brought in unconscious.
12	Female.	48	A. D. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 100 Since operation, 86	Improved.	Bone bare on promontory.
13	Male.	17	A. S. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Apertio antri.	Since admission, 36 Since operation, 34	Improved.	Whole inner cortex of mastoid destroyed by caries. Two weeks later carious ossicles removed.

No.	Sex.	Age.	Clinical Diagnosis.	Operation.	Duration of Treatment. Days.	Result.	Remarks.
14	Female.	$1\frac{11}{12}$	A. D. Otitis media suppurativa acuta cum carie portionis mastoideæ.	Paracentesis. Remotio cariei portionis mastoideæ.	Since admission, 90 Since operation, 89	Improved.	Seventy days later post aural abscess opened. Bronchopneumonia when convalescent.
15	Male.	25	A. D. Otitis media suppurativa chronica cum carie tympani.	Exenteratio tympani et portionis mastoideæ.	Since admission, 54 Since operation, 47	Improved.	Tympanum covered with epidermis, no granulations.
16	Female.	11	A. D. Otitis media suppurativa acuta cum carie portionis mastoideæ et fistulis in fossam digastricam.	Paracentesis. Apertio antri.	Since admission, 19 Since operation, 18	Improved.	
17	Male.	32	A. D. See No. 5.	Acupunctura sinus lateralis explorativa.	Since admission, 159 Since operation, 51	Improved.	See No. 5.
18	Female.	4	A. D. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Remotio cariei portionis mastoideæ.	Since admission, 113 Since operation, 109	Improved.	Process still going on in the depth.
19	Female.	6	A. D. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Apertio antri.	Since admission, 47 Since operation, 44	Improved.	About one hour after operation hemorrhage apparently from lateral sinus. Wound nearly healed when discharged.
20	Male.	6	A. D. Otitis media suppurativa acuta cum carie portionis mastoideæ.	Remotio cariei portionis mastoideæ.	Since admission, 39 Since operation, 39	Improved.	Spontaneous opening before operation.

21	Male.	25½	A. D. Otitis media suppurativa acuta cum carie portionis mastoideæ.	Apertio antri.	Since admission, 9 Since operation, 9	Improved.	Discharged with collodion dressing.
22	Male.	3	A. D. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Apertio antri.	Since admission, 69 Since operation, 69	Improved.	See No. 37. Process still going in depth. Fistula.
23	Male.	27	A. S. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 7 Since operation, 7	Improved.	Wound not wholly healed when discharged.
24	Female.	43	A. D. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 18 Since operation, 18	Improved.	Wound not wholly healed when discharged.
25	Male.	20	A. S. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Apertio portionis mastoideæ.	Since admission, 42 Since operation, 42	Improved.	
26	Male.	49	A. D. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Paracentesis. Remotio cariei portionis mastoideæ.	Since admission, 21 Since operation, 20	Improved.	Wound not wholly healed when discharged.
27	Male.	34	A. S. Otitis media suppurativa chronica cum periostitide portionis mastoideæ.	Apertio portionis mastoideæ.	Since admission, 22 Since operation, 17	Improved.	Discharged with collodion dressing.

No.	Sex.	Age.	Clinical Diagnosis.	Operation.	Duration of Treatment. Days.	Result.	Remarks.
28	Male.	22	A. S. Otitis media suppurativa acuta cum carie portionis mastoideæ et abscessu cervicis.	Apertio portionis mastoideæ.		Not improved.	See No. 29.
29	Male.	22	A. S. Otitis media suppurativa acuta cum carie portionis mastoideæ et abscessu cervicis.	Incisio abscessus cervicis. Remotio cariei portionis mastoideæ.	Since admission, 40 Since operation, 30	Improved.	Wound not wholly healed when discharged.
30	Male.	34	A. S. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Apertio portionis mastoideæ.	Since admission, 27 Since operation, 23	Improved.	See No. 35.
31	Female.	16	A. D. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 25 Since operation, 25	Improved.	Venous hæmorrhage during operation, probably from lateral sinus. Wound healed 16 days after operation. Angina follicularis.
32	Male.	26	A. S. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 46 Since operation, 39	Improved.	Malaria complication the same time.
33	Male.	37	A. S. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 14 Since operation, 14	Improved.	Wound not wholly healed when discharged.

34	Female.	29	A. S. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Apertio antri.	Since admission, 16 Since operation, 12	Improved.	Wound not wholly healed when discharged.
35	Male.	34	A. S. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Apertio antri.	Since admission, 27 Since operation, 17	Improved.	See No. 30.
36	Male.	52	A. D. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 22 Since operation, 18	Improved.	Wound not wholly healed when discharged.
37	Male.	3	A. D. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Apertio antri.	Since admission, 69 Since operation, 21	Improved.	Not healed up entirely. See No. 22.
38	Male.	$3\frac{6}{12}$	A. S. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Apertio antri.	Since admission, 18 Since operation, 18	Improved.	
39	Male.	$\frac{4}{12}$	A. S. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Remotio cariei portionis mastoideæ.	Since admission, 2 Since operation, 2	Dead.	Poor health. Abundant necrotic tissue.
40	Female.	29	A. S. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Apertio antri.	Since admission, 22 Since operation, 18	Improved.	Discharged with collodion dressing.

No.	Sex.	Age.	Clinical Diagnosis.	Operation.	Duration of Treatment. Days.	Result.	Remarks.
41	Male.	36	A. S. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Apertio antri.	Since admission, 15 Since operation, 14	Improved.	Wound not wholly healed when discharged.
42	Male.	52	A. S. Otitis media suppurativa acuta cum ostitide portionis mastoideæ cum otitide externa diffusa.	Apertio antri.	Since admission, 28 Since operation, 24	Improved.	Wound not wholly healed when discharged.
43	Female.	68	A. D. Otitis media suppurativa chronica cum necrose portionis mastoideæ.	Remotio necrosis mastoideæ.	Since admission, 69 Since operation, 55	Improved.	Wound healed about one week when discharged.
44	Male.	42	A. D. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Apertio portionis mastoideæ.	Since admission, 10 Since operation, 9	Improved.	
45	Male.	58	A. D. Otitis media suppurativa chronica cum carie portionis mastoideæ et ossis temporalis.	Paracentesis. Remotio cariei portionis mastoideæ et ossis temporalis.	Since admission, 32 Since operation, 18	Improved.	
46	Male.	31	A. S. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 13 Since operation, 10	Improved.	Wound not wholly healed when discharged.

47	Female.	$\frac{9}{12}$	A. S. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Apertio portionis mastoideæ.	Since admission, 38 Since operation, 36	Improved.	Process still going on in the depth.
48	Female.	1	A. D. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Remotio cariei portionis mastoideæ.	Since admission, 24 Since operation, 24	Improved.	
49	Male.	25	A. S. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 16 Since operation, 14	Improved.	
50	Male.	23	A. D. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 44 Since operation, 28	Improved.	Polyarthritis rheumatica complication the same time.
51	Female.	15	A. S. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio portionis mastoideæ.	Since admission, 10 Since operation, 9	Improved.	Discharged with collodion dressing.
52	Female.	13	A. D. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 23 Since operation, 17	Improved.	Malaria complication the same time.
53	Female.	7	A. S. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri secondaria.	Since admission, 1 Since operation, 1	Improved.	See No. 19. Discharged with packing in wound.

No.	Sex.	Age.	Clinical Diagnosis.	Operation.	Duration of Treatment. Days.	Result.	Remarks.
54	Female.	21	A. D. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 70 Since operation, 69	Improved.	Discharged with collodion dressing. Process going on for a long time in the depth. Still under treatment in the O. P. D.
55	Female.	15	A. S. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Remotio granulationum tympani. Apertio antri.	Since admission, 23 Since operation, 22	Improved.	Cholesteatomatous masses removed. Mastoid operation one and one half years ago. Discharged with collodion dressing.
56	Male.	25	A. D. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 49 Since operation, 48	Improved.	Wound not wholly healed when discharged.
57	Female.	85	A. S. Otitis media suppurativa chronica cum carie portionis mastoideæ et ossis temporalis.	Paracentesis Remotio mallei. Apertio antri. Remotio cariei ossis temporalis.	Since admission, 35 Since operation, 33	Improved.	Wound not wholly healed when discharged.
58	Male.	14	A. S. Otitis media suppurativa acuta cum carie portionis mastoideæ.	Paracentesis. Remotio granulationum tympani. Apertio antri.	Since admission, 31 Since operation, 31	Improved.	Wound not wholly healed when discharged.
59	Male.	8	A. D. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 27 Since operation, 26	Improved.	Wound not wholly healed when discharged.

60	Male.	28	A. D. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 20 Since operation, 19	Improved.	Wound not wholly healed when discharged.
61	Female.	31	A. D. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Apertio antri.	Since admission, 71 Since operation, 68	Improved.	Lateral sinus near surface. Opened. Poor health.
62	Male.	35	A. D. Otitis media suppurativa chronica cum empyema portionis mastoideæ.	Evisceratio portionis mastoideæ.	Since admission, 25 Since operation, 18	Improved.	Wound practically healed when discharged.
63	Female.	28	A. D. Otitis media suppurativa acuta cum ostitide portionis mastoideæ et fistulis in meatum.	Paracentesis. Apertio portionis mastoideæ.	Since admission, 20 Since operation, 18	Improved.	Wound not wholly healed when discharged.
64	Male.	10	A. D. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 37 Since operation, 36	Improved.	
65	Male.	$1\frac{8}{12}$	A. D. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio portionis mastoideæ.	Since admission, 6 Since operation, 5	Improved.	Wound not wholly healed when discharged.

No.	Sex.	Age.	Clinical Diagnosis.	Operation.	Duration of Treatment. Days.	Result.	Remarks.
66	Male.	22	A. D. Otitis media suppurativa chronica cum necrose portionis mastoideæ.	Remotio necrosis portionis mastoideæ.	Since admission, 15 Since operation, 13	Improved.	Mastoiditis for six months. Incised five months ago. Wound discharging since that time. Sequestrum removed from sigmoid groove. Wound not wholly healed when discharged.
67	Female.	5	A. D. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio portionis mastoideæ.	Since admission, 38 Since operation, 37	Improved.	Transpositio viscerum.
68	Male.	23	A. S. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 21 Since operation, 20	Improved.	Wound not wholly healed when discharged.
69	Female.	42	A. S. Otitis media suppurativa acuta cum carie portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 20 Since operation, 20	Improved.	Wound not wholly healed when discharged.
70	Female.	8	A. S. Otitis media suppurativa chronica cum carie portionis mastoideæ.	Apertio antri.	Since admission, 49 Since operation, 36	Improved.	

71	Male.	60	A. D. Otitis media suppurativa acuta cum ostitide portionis mastoideæ.	Paracentesis. Apertio antri.	Since admission, 17 Since operation, 17	Improved.	
72	Male.	29	A. S. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Apertio antri.	Still under treatment.		
73	Female.	25	A. D. Otitis media suppurativa chronica cum ostitide portionis mastoideæ.	Paracentesis. Remotio mallei. Apertio antri.	Since admission, 26 Since operation, 26	Improved.	Wound not wholly healed when discharged.

SUMMARY OF MASTOID OPERATIONS.

The right ear was affected on . . .	40 patients.
The left ear was affected on	33 patients.
The complication started after an acute ear disease on	36 patients.
A chronic ear disease on	37 patients.
Number of males were	45
Number of females were	28
The right ear of male patients was affected in,	23 cases.
The left ear of male patients was affected in .	22 cases.
The right ear of female patients was affected in,	17 cases.
The left ear of female patients was affected in,	11 cases.

DONATIONS IN 1896.

CASH FOR CURRENT EXPENSES.

Alley Brewing Co.	$10 00
E. F. Albee	5 00
Mary R. Brewer	200 00
W. S. Bullard	50 00
Mary L. Bangs	50 00
C. U. Cotting	25 00
Alice DeV. Clark	25 00
Mrs. James N. Crafts	20 00
Arthur A. Carey	100 00
Sarah M. Cunningham	10 00
Mrs. James F. Curtis	5 00
Mrs. Charles K. Dillaway	1 00
B. J. Duffy	10 00
Cornelia Dehon	20 00
George Dexter	100 00
Eilen Frothingham	25 00
Mrs. Wm. J. Fegan	1 00
A. F. Estabrook	100 00
W. G. Gross	2 00
Nelson H. Grover	3 00
Mrs. Thomas Goddard	5 00
John L. Gardner	100 00
J. S. Fay, Jr.	50 00
Haffenreffer & Co.	50 00
Habich & Co.	25 00
C. F. Hutchins	20 00
Mrs. A. D. Hooper	25 00
Amory A. Lawrence	100 00
Theodore Lyman	500 00
Mrs. Theodore Lyman, annually	20 00
Otis Norcross	10 00
Georgiana Parsons	10 00
Helen Paine	10 00
Mr. and Mrs. H. Pickering	100 00

F. H. Peabody	$25 00
Mary Quincy	10 00
Robinson Brewing Co.	25 00
Reuter & Co.	50 00
John A. Sullivan & Co.	50 00
Gideon Scull	100 00
Mabel H. Slater	25 00
F. R. Sears	100 00
A. G. Van Nostrand	50 00
Edward Wheelwright	10 00
S. Horatio Whitwell	10 00
Otis E. Weld	50 00
Geo. R. White	100 00
Anonymous	2 00
Anonymous	5 00

ARTICLES FOR HOSPITAL USE.

Three barrels of apples, from Mr. E. W. Barrey.

Books, toys and Christmas tree from Miss Bradley.

Thirty-six pieces new clothing from Trinity Church.

One hundred and fifty pieces new clothing from Needle Work Guild, Emmanuel Church.

Dolls for Christmas, from Mrs. C. P. Curtis.

Flowers, from Flower Mission.

Large box old linen, Mrs. Perkins.

Dolls, old linen, from Mrs. C. P. Curtis.

Old linen, from Miss C. E. Cotter.

Old linen, from a patient.

Men's clothing, shoes three pairs, Anonymous.

One and one-half dozen linen napkins, Anonymous.

Rubbers, 6 pairs, Anonymous.

One half dozen old shirts, Anonymous.

One dozen shirts, nearly new, Anonymous.

Toys for children, from Mrs. C. P. Curtis, Jr.

Toys for children's Christmas, Anonymous.

SEVENTY-SECOND

ANNUAL REPORT

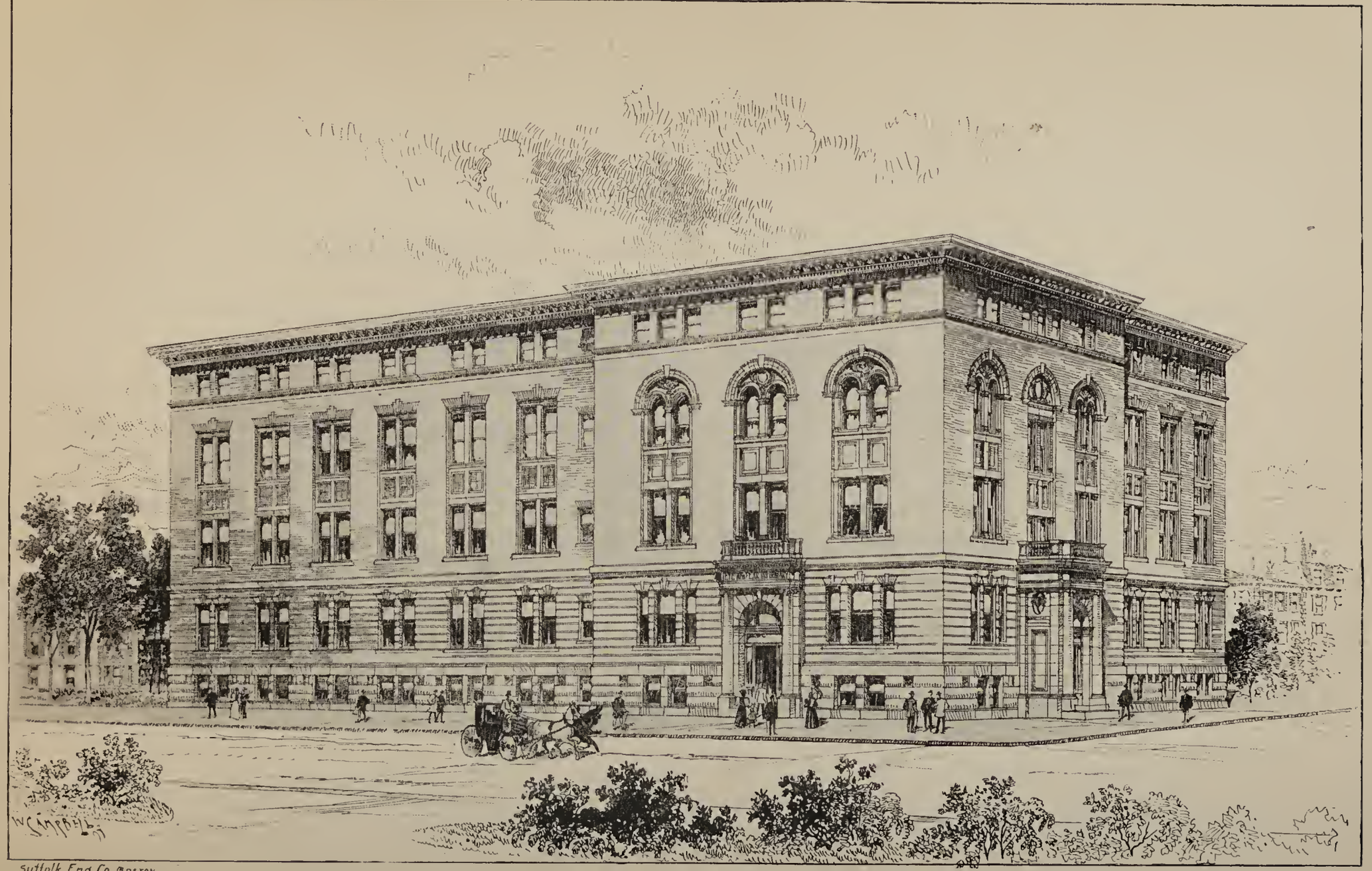
OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1897.



Suffolk Eng. Co Boston

SEVENTY-SECOND

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1897.

BOSTON:
PRESS OF ALFRED MUDGE & SON,
No. 24 Franklin Street.
1898.

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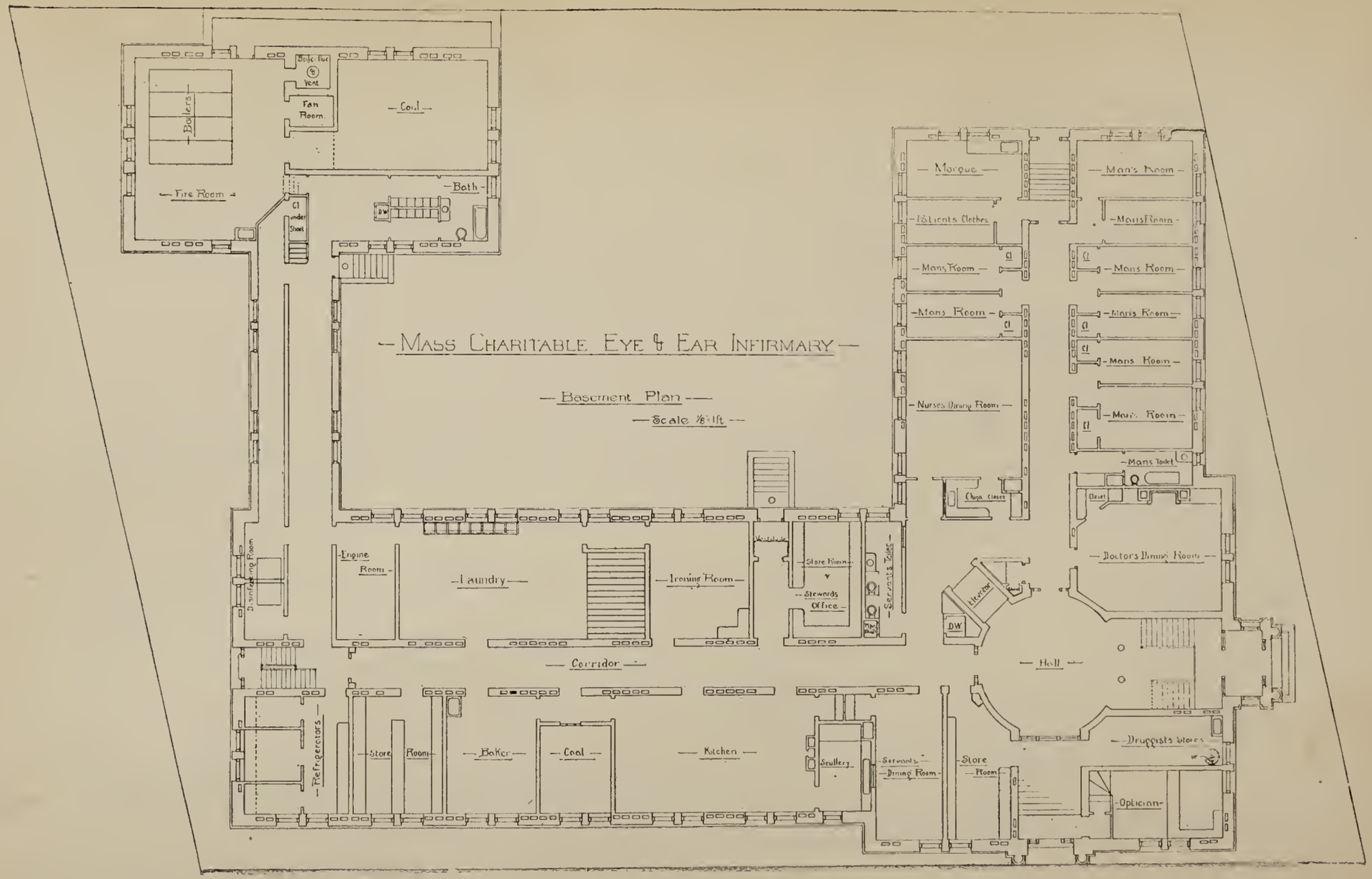
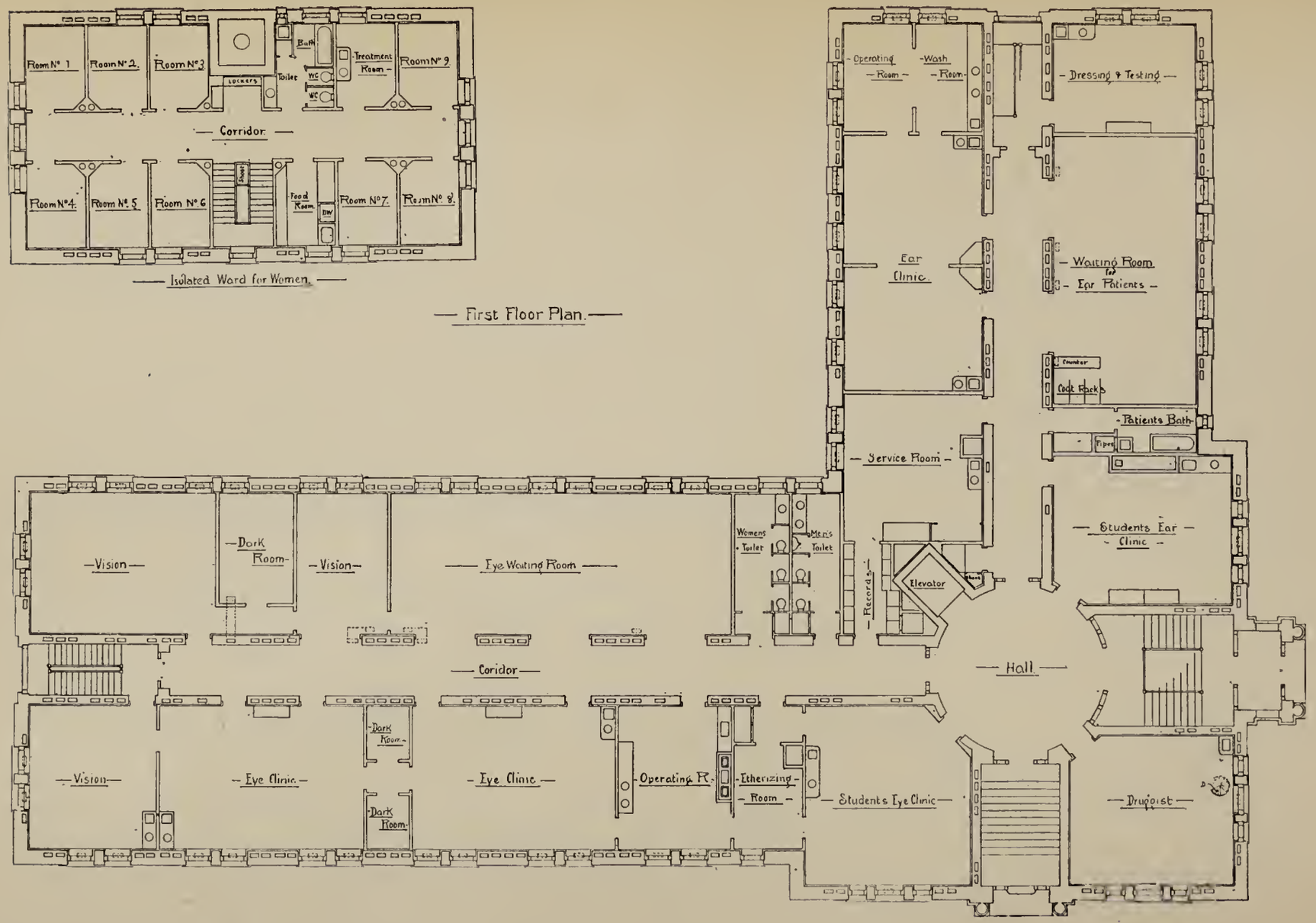
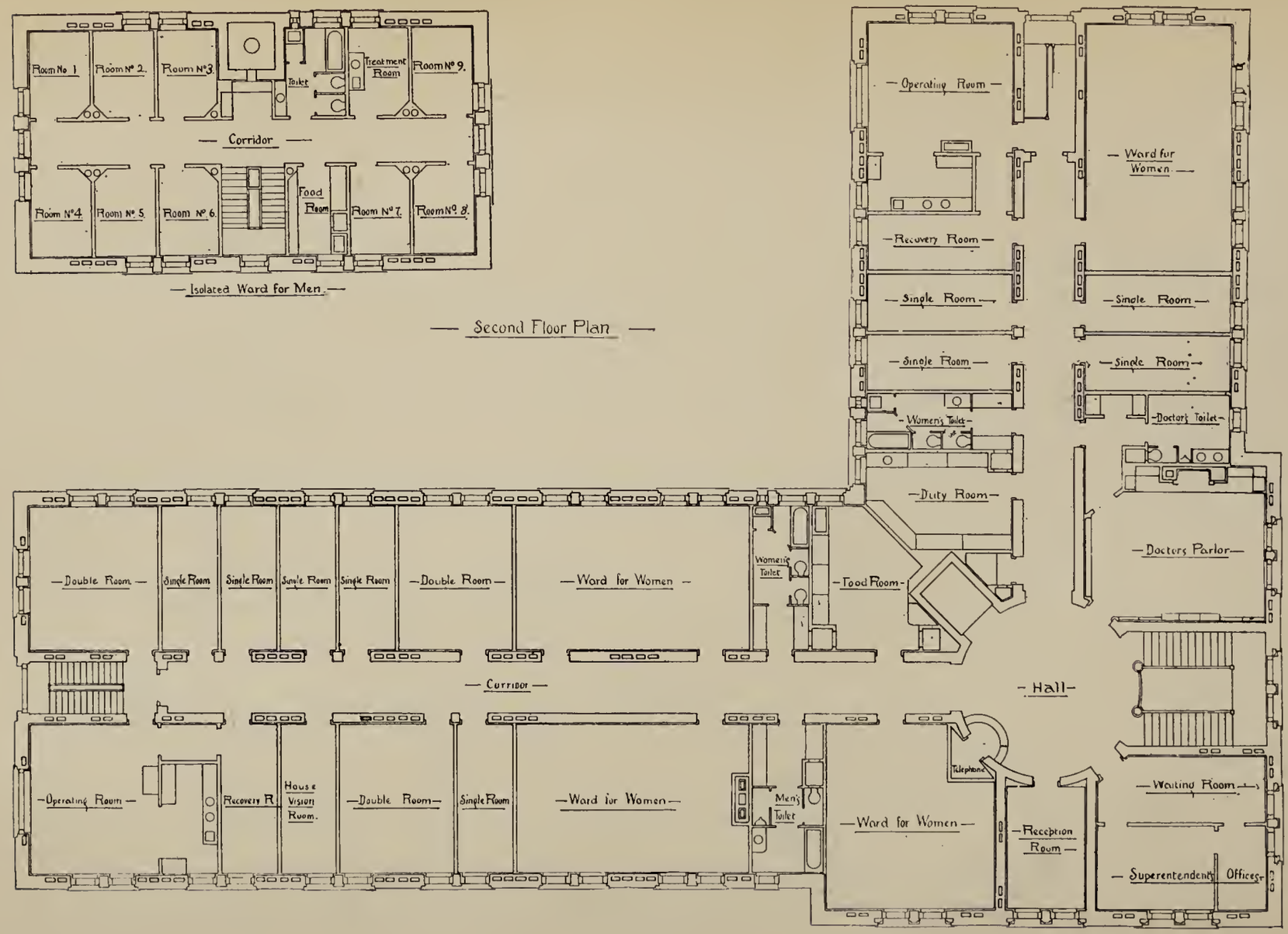
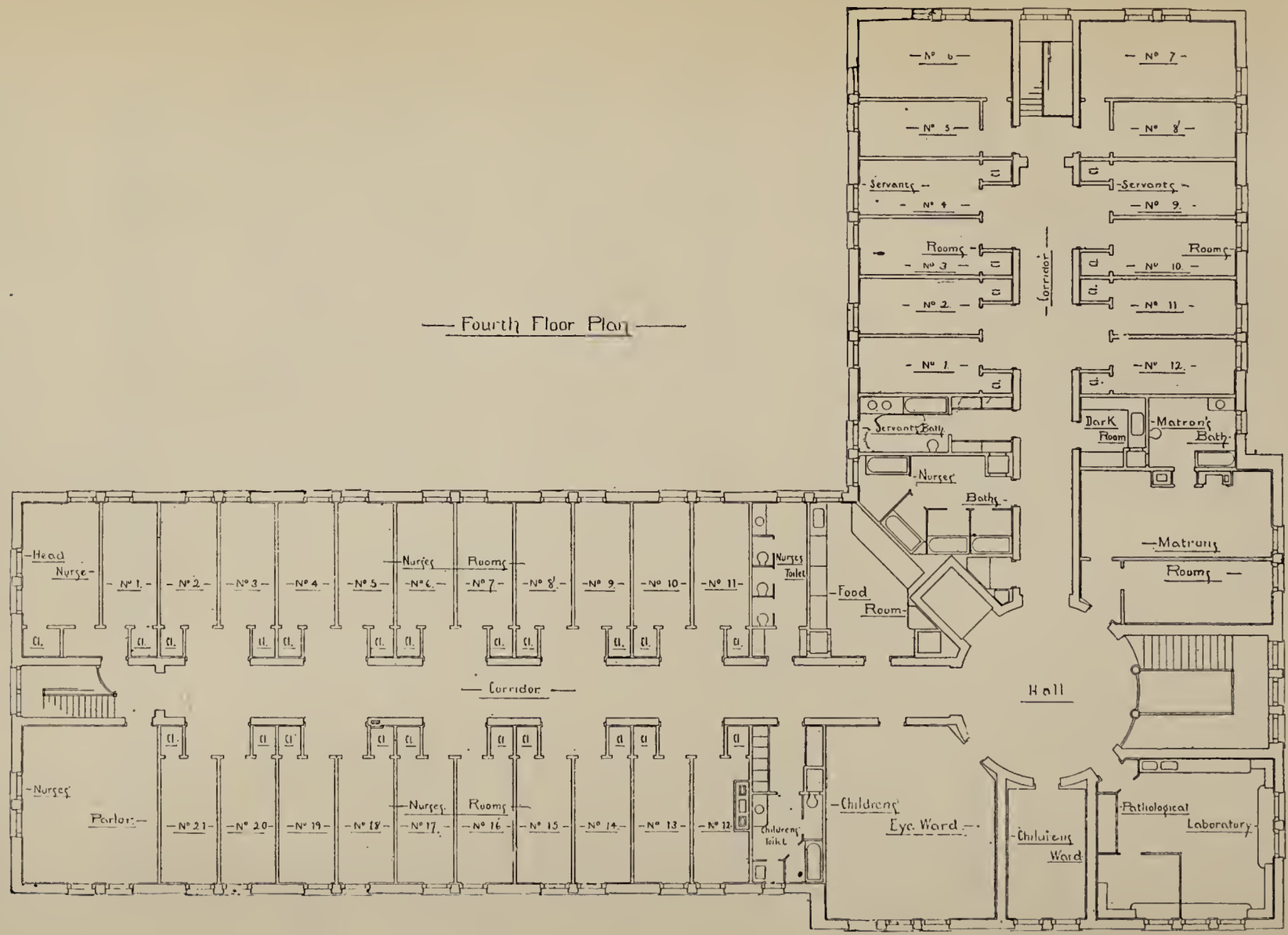

Boiler Flue
Vent
Fan Room
Coal
Boilers
Fire Room
Bath
DW
Cl
under Sheet
Disinfecting Room
Engine Room
Laundry
Ironing Room
Store Room
Stewards Office
Servants Toilet
Corridor
Refrigerators
Store Room
Baker
Coal
Kitchen
Scullery
Servants Dining Room
Store Room
Hall
Druggists Stores
Optician
Morgue
Patients Clothes
Mans Room
Mans Room
Mans Room
Nurses Dining Room
China Closets
Mans Room
Mans Room
Mans Room
Mans Room
Mans Room
Mans Toilet
Closet
Doctors Dining Room
Elevator
DW
MASS CHARITABLE EYE & EAR INFIRMARY
Basement Plan
Scale 1/8" = 1 ft


Room N° 1
Room N° 2
Room N° 3
Lockers
Bath
Toilet
WC
WC
Treatment Room
Room N° 9
Corridor
Room N° 4
Room N° 5
Room N° 6
Shoot
Food Room
DW
Room N° 7
Room N° 8
Isolated Ward for Women
First Floor Plan.
Operating Room
Wash Room
Dressing & Testing
Ear Clinic
Waiting Room for Ear Patients
Counter
Coat Racks
Patients Bath
Pipes
Service Room
Students Ear Clinic
Elevator
Records
Womens Toilet
Mens Toilet
Vision
Dark Room
Vision
Eye Waiting Room
Coridor
Hall
Vision
Eye Clinic
Dark Room
Eye Clinic
Operating R.
Etherizing Room
Students Eye Clinic
Druggist
Dark Room


Room No 1
Room N° 2.
Room N°3.
Toilet
Treatment Room
Room N° 9.
Corridor
Room N°4
Room N° 5
Room N° 6
Food Room
Room N° 7.
Room N° 8.
Isolated Ward for Men
Second Floor Plan
Operating Room
Ward for Women
Recovery Room
Single Room
Single Room
Single Room
Single Room
Women's Toilet
Doctor's Toilet
Duty Room
Doctors Parlor
Double Room
Single Room
Single Room
Single Room
Single Room
Double Room
Ward for Women
Women's Toilet
Food Room
Corridor
Hall
Operating Room
Recovery R.
House Vision Room.
Double Room
Single Room
Ward for Women
Men's Toilet
Ward for Women
Telephone
Reception Room
Waiting Room
Superintendent's Offices


Fourth Floor Plan
No 6
No 7
No 5
No 8
Servants
No 4
Servants
No 9
Rooms
No 3
Corridor
Rooms
No 10
No 2
No 11
No 1
No 12
Servants Bath
Dark Room
Matron's Bath
Nurses
Baths
Matrons Rooms
Head Nurse
No 1
No 2
No 3
No 4
No 5
Nurses Rooms
No 6
No 7
No 8
No 9
No 10
No 11
Nurses Toilet
Food Room
Cl.
Corridor
Hall
Nurses Parlor
No 21
No 20
No 19
No 18
Nurses Rooms
No 17
No 16
No 15
No 14
No 13
No 12
Childrens Toilet
Childrens Eye Ward
Childrens Ward
Pathological Laboratory

REPORT OF THE BOARD OF MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

THE MANAGERS HEREWITH PRESENT THEIR ANNUAL REPORT FOR THE YEAR ENDING SEPTEMBER 30, 1897.

In presenting this report the Managers are compelled to make an urgent appeal for contributions to enable them to continue to care for all poor and deserving applicants in the future as they have in the past.

This is because the work of the hospital has so largely increased in the past few years, that while the cost per patient has decreased, the total expense has been greater.

Also the present building has become so inadequate that we have been obliged to enter upon the construction of a new hospital building.

We therefore ask every one who is able, to forward contributions to the Treasurer, Mr. Augustus Hemenway, 10 Tremont Street, Boston.

We feel sure that an investigation of the work of our institution will convince any person interested in the subject that nowhere is a greater benefit secured to the community for the same amount of money. Large and constantly increasing numbers of poor persons are treated every year, persons too poor to be able to pay for skilful specialists, and very many of them are enabled to earn their living when, but for our treatment, they would become a burden upon the public authorities.

The Massachusetts Charitable Eye and Ear Infirmary was

incorporated in 1827 for the purpose of gratuitously treating diseases of the eye and ear.

It is the second oldest hospital in New England.

Ever since it was founded it has afforded the best of treatment to poor people who, without its aid, would have been unable to earn their livelihood.

The work has constantly increased year by year as the population in the city, State, and other New England States, all of which furnished patients, has increased.

The usefulness of the Infirmary since the erection of its present building in 1849 has been a growing one. The following statistics of the number of patients treated will be of interest, and as these figures only represent individuals, the numbers should be multiplied by three or four to show the actual attendance of persons, old and new, out-patients and house-patients, who pass through the various departments in a year: —

Year.	Number of Patients.
1849	2,002
1867	2,580
1877	9,087
1890	15,289
1895	19,150
1896	20,904
1897	21,594

The present building having become entirely inadequate for the work of the institution, because of its insufficient accommodations, its bad sanitary condition, and its situation on a noisy thoroughfare, the trustees were forced to seek a new location.

They found that they could buy some thirty thousand square feet of land that was well adapted to the needs of the hospital upon Charles Street, fronting the park and adjoining the grounds of the Massachusetts General Hospital.

They presented the needs of the institution to the Legislature of 1896 and secured an appropriation of one hundred thousand dollars.

The land cost eighty-two thousand five hundred dollars, and the estimated cost of building and equipping a suitable hospital is one hundred and ninety thousand dollars.

Under the terms of the resolve appropriating the money the building must be completed by 1901.

During the past year plans for the new building were perfected by Shaw & Hunnewell, architects, and were accepted by the trustees. The estimated cost of the building complete, without furnishing, is one hundred and eighty-two thousand dollars. The furnishing and equipping will probably cost some ten thousand dollars more.

The new hospital and grounds, complete, will cost about two hundred and seventy-five thousand dollars.

The plans have been most carefully prepared in every detail to adapt the building to the special work of the Infirmary. The trustees believe that the hospital, when completed, will be one of the best of its kind in the world. While no money will be thrown away for mere architectural effect, the plan is dignified and simple and the building will be an addition to our institutions.

It has been planned to meet all the requirements of a first-class modern hospital. It will consist of a central administration building, an ophthalmic wing, an aural wing, and a contagious hospital completely isolated from the main building. It will be of fireproof construction throughout and will have thorough ventilation, sanitary plumbing, and modern heating appliances. The plans are prefixed to this report.

The need of a new building was so imperative that the trustees have had to contract for its construction, and the work is already in progress.

The balance of the money needed to build the hospital must be raised by subscription. Already three benefactors have given five thousand dollars each towards the necessary fund, and the managers most earnestly solicit subscriptions, for this purpose. At least fifty thousand dollars more will be needed.

The educational value of the Massachusetts Charitable Eye and Ear Infirmary cannot be overestimated.

From the standpoint not only of the number of patients treated, but the character and importance of the operations, it is one of the largest, if not the largest, hospital for diseases of the eye and ear in the United States.

The Surgical Staff is composed of specialists of national reputation. The value of their work, both in the treatment of patients and in the instruction of students, cannot therefore be overestimated. They serve entirely without pay.

It is the source of medical education for diseases of the eye and ear for the doctors and medical students of New England. There are daily clinics for students in its wards, and every community where these students practise their profession receives a benefit. The institution also educates its House Officers as specialists in diseases of the eye and ear, each receiving a two-years training. It is also educating Nurses who are carefully trained and made thoroughly familiar with the delicate manipulations and dressings necessary in ophthalmic and aural diseases. This is of great bene fit to the community.

Within the past two years, under the skilful management of the Superintendent, Dr. Farrar Cobb, the hospital has been put upon a modern basis, as far as was possible in the present building.

A Training School for Nurses has been started and is in successful operation.

The work of the hospital has increased largely in the past year. The daily average number of house-patients treated in the wards was 80, or 19 more than in 1895.

One thousand two hundred and sixty-four patients were treated in the wards, and 21,594 new patients were treated in the out-patient department; the total number of out-patients treated was 66,252.

These patients were all poor, and came from all parts of Massachusetts, and also from other States.

During the greater part of the year the wards of the hospital were so crowded that many deserving patients had to be turned away, and refused admittance from lack of room.

In spite of this large increase in the number of patients treated, the institution was so skilfully administered that the total expenditures, by the Superintendent, were over $800 less than the preceding year.

The entire cost of running the hospital, including attendants, nurses, and expenses of every description, for both house-patients and out-patients, was only $11.62 a week for each house-patient, a decrease of $1.05 a week from 1896.

The deficit in running the hospital in 1896 was $10,000. This was met in part by the Legislature, which increased the State's appropriation from $20,000 to $25,000.

The receipts of the Institution were increased over $1,100, and the balance was provided by popular subscription. These subscriptions will have to be continued and enlarged in the future, or the work of the hospital will have to be curtailed.

J. COLLINS WARREN,
WM. D. SOHIER,
for the Board of Managers.

REPORT OF THE TREASURER

OF THE

Massachusetts Charitable Eye and Ear Infirmary,

FOR THE YEAR ENDING SEPT. 30, 1897.

INCOME.

RECEIPTS.

Income from Investments		$9,475 49
Income from will E. V. Ashton		1,250 00
Gift from State		25,000 00
Rebate Bank Tax		382 97
Rent corner Charles and Fruit Streets and Ashton Place		3,034 10
Gifts in response to circular of November, 1897		2,719 00
From Superintendent, per his report:		
Board of Patients	$3,012 60	
Optician's Account	5,519 55	
Medicines	4,478 28	
Sundries	153 67	
		13,164 10
		$55,025 66
Excess of expenditures over receipts		5,060 06
		$60,085 72

EXPENDITURES.

Running Expenses, per account of Superintendent		$48,964 65
ADDITIONAL EXPENSES PER ACCOUNT OF TREASURER.		
Balance last year's account (deficit preceding years)	$10,114 71	
Pittsfield Visits	160 00	
Annuities	300 00	
Sundries	44 00	
Insurance	105 40	
Printing and Petties	396 96	
		11,121 07
		$60,085 72

REPORT OF THE SUPERINTENDENT

For the Year ending September 30, 1897.

To the Board of Managers:

Gentlemen: — The year of 1897 has been a very satisfactory one. The work of the hospital has increased, the receipts of money from the work itself has increased, while the cost of maintenance has been considerably less than in the year preceding.

STATISTICS OF HOUSE-PATIENTS.

The number of patients treated in the wards was 1,264.

Of the 1,264 house-patients, 722 were males, and 542 females.

Patients treated in Ophthalmic wards . .	950
Patients treated in Aural wards . . .	314

Of the total number, 351 were children under 14 years.

Daily average of patients in wards in 1897 was 80.

Daily average of patients in wards in 1896 was 75, a daily average increase of 5 throughout the year.

Largest number of house-patients at any one time in 1897 was 100.

Free patients admitted	879
Paying patients at $6.00 per week . . .	133
Paying patients at less than $6.00 a week . .	173

The average stay per patient in the hospital was 22.62 days.

RESIDENCE OF HOUSE-PATIENTS.

Boston	499	Rhode Island	5
Massachusetts (excepting Boston)	705	Connecticut	2
Maine	11	British Provinces	2
New Hampshire	36		
Vermont	4		1,264

OCCUPATION OF HOUSE-PATIENTS.

MALES.

Artists	1	Printers and Compositors	17
Agents	4	Pedlers	7
Bakers	1	Physicians	1
Blacksmiths	14	Plumbers	3
Clerks	21	Railroad Employees	11
Carpenters	36	Seamen	4
Coachmen and Hostlers	11	Shoemakers	8
Engineers	7	Stone-masons	13
Firemen	1	Stone-cutters	34
Farmers	39	Students	9
Gardeners	7	Teamsters	19
Iron-workers and Moulders	19	Tailors	9
Janitors	1	Wood-carvers	5
Lithographers	1	Other occupations	15
Laborers	134	No occupation given	20
Mill and Factory Operators	60	Children	167
Machinists	20		
Musicians	2		722
Nurse	1		

FEMALES.

Clerks	3	Nurses	5
Domestics	106	Seamstresses	3
Dressmakers	3	Teachers	2
Housewives	174	No occupation given	16
Housekeepers	3	Children	206
Mill and Factory Operatives	20		
Milliners	1		542

CONDITION OF HOUSE-PATIENTS AT DISCHARGE.

456 were well.
588 were relieved.
88 were not relieved.
15 left against advice.
23 were transferred to other hospitals.
3 eloped.
9 died.
82 remaining in the hospital, September 30, 1897.

NUMBER OF OPERATIONS.

In the Ophthalmic department there were 1,782 operations performed.

In the Aural department there were 1,447 operations performed.

OUT-PATIENT DEPARTMENT.

NEW PATIENTS TREATED.

Ophthalmic:	Males	8,136	
	Females	8,081	
			16,217
Aural:	Males	2,981	
	Females	2,396	
			5,377
	Total		21,594

Number of old patients treated in the Out-Patient departments was: —

Ophthalmic	24,756
Aural	19,902
Total	44,658
Total attendance in Out-Patient Clinics	66,252

This shows an increase of 690 new out-patients, and a total increase of visits of 4,773.

RESIDENCE OF OUT-PATIENTS.

Boston	11,101	Rhode Island	17
Massachusetts (excepting Boston)	10,156	Connecticut	14
Maine	80	Other States	18
New Hampshire	162	British Provinces	18
Vermont	28	Total	21,594

OCCUPATION OF OUT-PATIENTS.

Agents	142	Musicians	41
Artists	22	Nurses	144
Barbers	126	Painters	229
Bakers	33	Pedlers	90
Blacksmiths	232	Pensioners	13
Bookbinders	46	Photographers	17
Bookkeepers	161	Physicians	6
Butchers	33	Plumbers	119
Carpenters	468	Police, etc.	39
Clergymen	27	Street and Steam Railroad Employees	305
Clerks	1,380	Sailors	21
Coachmen and Hostlers	132	Seamstresses	554
Compositors and Printers	147	Shoemakers	342
Domestics	2,476	Stenographers	55
Electricians	88	Stone-cutters	254
Engineers	156	Stone-masons	180
Engravers	8	Store-keepers	47
Farmers	175	Students	251
Firemen	82	Tailors	312
Fishermen	27	Teachers	125
Hotel-keepers	42	Teamsters	500
Housewives	3,506	Telegraph Operators	35
Iron-workers	92	Waiters	203
Laborers	2,237	Wood-workers	204
Messengers	44	Other occupations	468
Machinists	687	Children	3,497
Milliners	52		
Mill and Factory operatives	1,787		
Moulders	125		21,594

A COMPARATIVE VIEW OF RECEIPTS AND EXPENDITURES FOR 1897 AND 1896.

RECEIPTS.

	1897.	1896.
Board of patients	$3,012 60	$2,848 72
Drug Department	4,478 28	4,063 25
Optical "	5,519 55	4,676 75
Sundries	153 67	421 39
Totals	$13,164 10	$12,010 11

An increase of receipts by the Superintendent of $1,153.99.

EXPENDITURES.

Provisions	$10,704 07	$11,051 64
Wines and Liquors	117 05	151 50
Water Rates	1,412 40	855 60
Gas and Oil	1,321 65	1,188 05
Ice	438 99	579 41
Wages	18,476 55	18,973 20
Fuel	2,612 29	2,756 22
Medicines and Dispensary	2,862 12	2,473 33
Stationery and Printing	653 13	913 37
Optical and Surgical Departments supplies	4,208 37	3,701 99
Repairs	1,762 17	2,300 38
Furnishings and Supplies, general	2,099 74	3,185 77
Contingent and Sundries	2,296 12	1,715 18
Totals	$48,964 65	$49,845 64

A decrease in the expenditures of $880.99, despite the increased work done.

PER CAPITA EXPENSE.

The cost of maintenance per house-patient per week was $11.62.

The cost of maintenance per inmate per week has been $6.72.

The per capita expense per house-patient per week in the preceding year was $12.67, showing a decrease in the per capita expense of $1.05 per week.

It is well to note that the saving in running the hospital would be considerably greater if it were not for the two severe epidemics of diphtheria during the year, which necessitated extra expenditures to a large amount for cleaning, painting, etc.

TRAINING SCHOOL FOR NURSES.

The average daily number of nurses employed during the year has been nineteen; an average of one to every four and one-quarter house-patients. It should be stated that four nurses have been employed daily in the out-patient clinics.

Of the whole number of nurses, fourteen have taken the regular four months' post-graduate course and have received diplomas.

Lectures by members of the Assistant Surgical Staff and by House-Surgeons, as well as recitations and practical work by the Superintendent of Nurses, have been carried on through the year.

In July Miss G. E. Everts resigned her position as Superintendent of Nurses, and Matron, and her place was taken by Miss Mary Coonahan, under whom the affairs of the hospital have gone on satisfactorily.

All of which is respectfully submitted.

FARRAR COBB, M. D.,
Superintendent.

REPORT OF THE FULL BOARD OF SURGEONS

To the Managers of the Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen: — The Surgeons of the Infirmary herewith respectfully submit their report for the year ending September 30, 1897.

The whole number of new patients applying for treatment in both out-patient departments was: —

	1896-97.	1895-96.
Eye Patients	16,217	15,359
Ear Patients	5,377	5,545
Total	21,594	20,904

The whole number of house-patients was: —

	1896-97.	1895-96.
Eye Patients	950	912
Ear Patients	314	285
Total	1,264	1,197

The increase in the number of new patients over the two previous years was 690. The increase in the Ophthalmic department of 858, and a diminution of attendance in the Aural department of 167.

The total number of operations performed was 3,229 of this number; 186 were for the removal of Cataract, and 119 were on Mastoid cases.

The thanks of the Surgeons are due to the Assistant Surgeons, Clinical Assistants, and Internes, for faithful and efficient work, and to the Superintendent and Matron for the assiduous care, which have added materially to the success of the year's work.

H. BECKLES CHANDLER, M. D.,
FREDERICK L. JACK, M. D.,
For the full Board of Surgeons.

REPORT OF OPHTHALMIC SURGEONS.

DISEASES OF HOUSE-PATIENTS.

Lids.

Abscess	3
Blepharitis	3
Cysts	1
Dermatitis	1
Ectropion	4
Entropion	14
Epithelioma	5
Lymphoma	3
Pemphigus	1
Ptosis	1
Symblepharon	4
Wounds	4
	44

Lachrymal Apparatus.

Abscess	4
Dacryo-cystitis	3
Lachrymal obstruction	3
Mucocele	1
	11

Conjunctivitis.

Conjunctivitis, Acute	6
Diphtheritic	3
Gonorrhœal	37
Granular	18
with Pannus	13
Muco-purulent	15
Ophthalmia Neonatorum	20
Pterygium	8
Tumors	2
	122

Cornea.

Abrasion	1
Abscess	2
Burns	12
Cuts	7
Foreign Body	4
Keratitis, Bullous	1
Interstitial	14
Phlyctenular	92
Superficial	1
Traumatic	1
Ulcerative	19
Vascular	3
Kerato-iritis	2
Kerato-scleritis	2
Leucoma, partial	8
Total	2
Rupture	5
Sarcoma	1
Staphyloma, Partial	11
Ulcers	62
Perforating	2
Specific	1
Superficial	1
Traumatic	7
with Hypopyon	12
Wounds	26
	299

Sclera.

Episcleritis	1
Wound of Ciliary Region	7
Wound of Sclera	1
Scleral Staphyloma	1
	10

IRIS AND CILIARY BODY.

Iritis, Simple	5
Rheumatic	14
Serous	1
Specific	11
with Hypopyon	1
Traumatic	2
Occluded pupil	10
Prolapsed Iris	2
Sympathetic Ophthalmia	3
	49

LENS.

Cataract, Capsular	12
Congenital	28
Lamellar	2
Mature	188
Traumatic	29
Foreign Body	1
	260

OPTIC NERVE.

Atrophy	1

RETINA.

Separation	10

CHOROID.

Choroiditis, Central	1
Glaucoma, Acute	13
Secondary	5
Simplex	5
Rupture	1
	25

GLOBE AND ORBIT.

Cellulitis of Orbit	1
Disorganized Globe	35
Exophthalmus	5
Abscess of Orbit	2
Intra-Ocular Tumor	1
Irritable Orbit	3
Panophthalmitis	6
Phthisis Bulbi	6
Post-Orbital Abscess	1
Periostitis of Orbit	1
Rupture of Globe	5
Sinus of Orbit	1
Tumor of Orbit	1
Sarcoma of Orbit	1
Cicatrical Bands in Orbit	1
Abscess, Frontal Sinus	3
Sebaceous Cyst of Brow	1
	74

GENERAL INJURIES.

Injuries	18
Blows and Cuts	2
	20

REFRACTION.

Astigmatism, Compound Hypermetropic	1
Hypermetropia	1

MUSCULAR AFFECTIONS AND NEUROSES.

Diplopia	1
Esophoria	1
Paralysis of 3d and 4th Nerves	1
Photophobia	1
Strabismus, Convergent	15
Divergent	3
	22

MISCELLANEOUS.

No Disease	3
Total	952

OPHTHALMIC OPERATIONS.

Lids.

Abscess	3
Canthoplasty	6
Carcinoma	1
Chalazion	88
Cyst of Brow and Lid	2
Ectropion	4
Entropion and Trichiasis, Green's Operation	15
Epithelioma, excised	10
	129

Conjunctiva.

Cyst	2
Plastic Operation	7
Pterygium Operation	30
Peritomy	1
Symblepharon	5
Tumors, excised	4
	49

Cornea.

Curettage	2
Foreign Body, removed	1035
Paracentesis, for Glaucoma	4
Hypopyon	1
Plastic Operation	1
Sæmisch Operation	7
	1050

Iris.

Iridectomy, for Artificial Pupil	22
Glaucoma	7
Preliminary to Cataract Operation	2
Occluded Pupil	9
Prolapsed Iris	13
Passavant's Operation	2
Staphyloma, Anterior	8
	63

Muscles.

Advancement, External Rectus	8
Internal Rectus	12
Tenotomy, External Rectus	2
Internal Rectus	48
Superior Rectus	3
	73

Lens.

Capsule Operations	73
Cataract Operations, Modified Graefe	60
Simple	68
Attempted	1
with Buttonhole of Iris,	28
Suction	6
Linear Incision	1
Discissions	61
	298

Enucleations.

For Disorganized Globe	39
Glaucoma	2
Phthisis Bulbi	3
Sympathetic Inflammation	3
Threatened	15
Tumor of Globe	2
Tumor of Orbit	1
Staphyloma	5
Intra-ocular Hæmorrhage, after Cataract Extraction,	1
Panophthalmitis	4
	75

MISCELLANEOUS.

Abscess, Lachrymal Duct, Incised	6
Abscission of Vitreous	4
Evisceration	2
Exploratory, for Tumor of Orbit,	5
Foreign Body, Anterior Chamber, Magnet	4
Attempted	2
Frontal Sinus	3
New Growth of Orbit	3
Wound of Sclera	1
Other Operations	15
	45
Total Operations,	1,782

DISEASES OF OUT-PATIENTS.

Lids.

Abscess	48
Blepharitis, Marginalis	719
Burns	23
Chalazion	444
Cysts	24
Calcareous Deposit	1
Dermatitis	17
Ecchymosis	40
Ectropion	32
Entropion	28
Eczema	45
Epicanthus	1
Epithelioma	10
Erythema	1
Emphysema	1
Foreign Body	215
Granuloma	1
Growth	6
Herpes Zoster	2
Hordeolum	94
Hæmatoma	1
Hypertrophy	1
Lagophthalmus	7
Lipoma	1
Lippitudo	9
Lymphoma	1
Milium	5
Molluscum-contagiosum	2
Nævus	5
Œdema	66
Papillomata	6
Phtheiriasis	5
Ptosis	39
Symblepharon	7
Trichiasis	65
Distichiasis	1
Tumors	16
Ulcer, Specific	1
Vaccine	2
Traumatic	1
Wound	38
Xanthelasma	5
Pemphigus	1
	2,037

Lachrymal Apparatus.

Abscess	40
Dacryo-cystitis	76
Lachrymal Obstruction	370
Fistula	5
Growth	1
	492

Conjunctiva.

Conjunctivitis, Catarrhal Acute	2,127
Chronic	462
Diphtheritic	16
Follicular	115
Gonorrhœal	52
Granular	177
with Pannus	31
Muco-purulent	46
Neonatorum	61
Phlyctenular	236
Traumatic	127
Burns	36
Cuts	25
Cysts	4
Chemosis	21
Ecchymosis	123
Foreign Body	49
Hyperæmia	4
Growth	4
Granuloma	16

Pinguecula	37
Pterygium	86
	3,854

Cornea and Sclera.

Abrasion	121
Burns	33
Foreign Body, Cornea	1,031
Sclera	13
Epithelioma, Cornea	1
Episcleritis	51
Infiltration, Cornea	120
Keratitis, Interstitial	46
Phlyctenular	377
Marginal	4
Superficial	321
Punctata	3
Traumatic	27
Vascular	12
Kerato-conus	2
Kerato-iritis	10
Leucoma	187
Inflamed	29
Corneal Opacities	359
Rupture Cornea	16
Rupture Sclera	6
Scleritis	8
Sclero-keratitis	11
Corneal Staphyloma	25
Scleral Staphyloma	6
Ulcer Cornea	335
with Hypopyon	20
Marginal	4
Ulcer, Perforating	6
Phlyctenular	10
Traumatic	56
Vascular	10
Wound Ciliary Region	20
Cornea	38
Perforating	5
Sclera	10
	3,335

Iris and Ciliary Body.

Atrophy	1
Ciliary Injection	39
Foreign Body, Iris	1
Irido-cyclitis	2
Dialysis	3
Donesis	20
Iritis, Rheumatic	182
Specific	58
Serous	1
Traumatic	21
Mydriasis	36
Artificial	34
Occluded Pupil	27
Synechia, Anterior	35
Posterior	21
	481

Lens.

Cataract, Capsular	20
Congenital	26
Cretaceous	5
Incipient	403
Lamellar	7
Mature	89
Post. Polar	7
Ant. Polar	2
Traumatic	55
Nuclear	6
Black	2
Dislocated Lens	23
Opacities Lens	115
Foreign Body, Lens	2
	762

Vitreous.

Hemorrhage	10
Hyalitis	14
Muscæ Volitantes	19
Opacities	80
	123

Optic Nerve.

Atrophy	62
Neuritis	19
	81

RETINA.

Amaurosis	1
Changes in Macula	21
Embolism, Central Artery	2
Neuro-retinitis	21
Pigmentary Degeneration Retina,	4
Retinitis	16
Albumenuria	15
Hæmorrhagic	17
Thrombosis, Retinal Vein	1
Glioma	12
Separation	39
	149

CHOROID.

Albinism	4
Atrophy	22
Choroiditis	49
Metastic Purulent	3
Glaucoma	52
Irido-choroiditis	1
Retino-choroiditis	13
Rupture Choroid	4
Prolapse Choroid	1
Staphyloma, Posterior	39
	188

GLOBE AND ORBIT.

Abscess, Orbit	5
Disorganized Globe	34
Foreign Body, Globe	34
Hydrophthalmus	7
Irritable Orbit	5
Microphthalmus	8
Panophthalmitis	1
Proptosis	2
Periostitis, Orbit	1
Phthisis Bulbi	25
Rupture Globe	5
Tumor, Orbit	1
Globe	10
Cyst, Orbit	1
Exophthalmus	14
Exostosis	1
Abscess, Frontal Sinus	2
Brow	10
Cyst	3
	169

GENERAL INJURIES.

Blows and Cuts	146
Burns	40
	186

ACCOMMODATION AND REFRACTION.

Asthenopia	29
Astigmatism, Regular	1,381
Irregular	29
Hypermetropia	2,847
Myopia	795
Presbyopia	591
	5,672

AFFECTIONS OF PERCIPIENT APPARATUS.

Amblyopia	46
(Tobacco, Alcohol)	21
Nyctalopia	2
Scotoma	20
	89

MUSCULAR AFFECTIONS AND NEUROSES.

Blepharospasm	9
Ciliary Neuralgia	2
Diplopia	27
Exophthalmic Goitre	2
Locomotor Ataxia	3
Nictitation	16
Neurasthenia	2
Nystagmus	31
Hyperphoria	4
Esophoria	9
Exophoria	7
Hemianopsia	2
Paralysis of Facial Nerve	18
Ciliary	10
Fourth	2
Sixth	4
Third	20
Seventh	1
Inferior Oblique	1
Rectus Muscle	19
Photophobia	12

Strabismus, alternating	23
Convergent	316
Divergent	81
Transient	2
Supra-orbital Neuralgia	8
	631

MISCELLANEOUS.

No Disease	29
Referred to other Institutions	50
Eloped	340
Entered by mistake	41
Unfit	254
	714

OTHER DISEASES.

Alcoholism	1
Anæmia	14
	15

SUMMARY OF DISEASES.

Lids	2,037
Lachrymal Apparatus	492
Conjunctiva	3,854
Cornea and Sclera	3,335
Iris and Ciliary Body	481
Lens	762
Vitreous	123
Optic Nerve	81
Retina	149
Choroid	188
Globe and Orbit	169
General Injuries	186
Accommodation and Refraction	5,672
Affections of the Percipient Apparatus	89
Muscular Affections and Neuroses	631
General Diseases	15
Miscellaneous	714
	18,978

Report of One Hundred and Eighty-six Operations for the Removal of Cataract,

Performed at the Infirmary by the Ophthalmic Staff during the year ending August 31, 1897.

Compiled by H. Beckles Chandler, M. D.

During the past year there have been one hundred and eighty-six operations for the removal of Cataract, tabulated as follows: —

Method Von Graefe (modified) . . .	60
Simple extraction	41
Simple extraction with buttonhole of iris .	39
Miscellaneous operations, for traumatic, congenital, and cataracts not senile . .	46
	186

Of this number, one hundred and forty may be considered mature senile cataracts. The age of forty being taken as a standard or dividing line.

The resulting vision of the one hundred and forty senile cataracts, the majority being tested at time of discharge, two to three weeks after operation, was as follows: —

VON GRAEFE (MODIFIED).

Vision = 1	4	" = 0.2	16
" = 0.9	0	" = 0.1	5
" = 0.8	2	" = fingers . . .	1
" = 0.7	3	" = shadows . . .	1
" = 0.6	5	" = 0	1
" = 0.5	5	" = not recorded . .	
" = 0.4	6		—
" = 0.3	10		60

SIMPLE EXTRACTION.

Vision = 1	6	" = 0.3	2
" = 0.9	1	" = 0.2	8
" = 0.8	1	" = 0.1	1
" = 0.7	2	" = shadows	1
" = 0.6	6	" = 0	3
" = 0.5	5		—
" = 0.4	5		41

SIMPLE EXTRACTION WITH BUTTON-HOLE OF IRIS.

Vision = 1	3	" = 0.2	5
" = 0.9	2	" = 0.1	8
" = 0.8	1	" = 0.05	2
" = 0.5	6	" = 0	1
" = 0.4	3		—
" = 0.3	8		39

The number of secondary operations has been forty-two.

Von Graefe	10
Simple extraction	21
Simple extraction with button-hole of iris	11
	—
	42

Prolapse of vitreous occurred in eight cases.

Von Graefe	1
Simple extraction	7

Prolapse, incarcerated or adherent iris, was present in fifteen cases.

Von Graefe	4
Simple extraction	7
Simple extraction with button-hole of iris	4
	—
	15

There have been five cases where scoop was used to complete extraction.

Total loss of eye is recorded in four cases.

Case 4, Von Graefe method, corneal ulceration took place on the fifty-seventh day.

Case 29, simple extraction, a profuse choroidal hæmorrhage occurred shortly after extraction of the lens, and enucleation was immediately performed.

Cases 6 and 26, simple extractions, and case 39, simple extraction with buttonhole of iris, suppurative destruction took place.

From the history of these last three cases, it is evident that infection occurred after removal of the bandage.

Strict antiseptic precautions were taken in the majority of cases. The conjunctival sac and surroundings were washed with a solution of corrosive sublimate the night previous to operation, and a gauze compress applied; all instruments and dressings sterilized.

MATURE SENILE CATARACTS.

Modified Graefe Extractions.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	Male. 52 Amer. Good.	1 year. Senile. Normal.	Sept. 4, 1896. O. D. Cocaine. Atropine daily. Bandage omitted seventh day. Some cortical in pupil. 14 days.	V. = 0.6. Oct. 15, 1896. V. = 1.
2	Male. 77 Amer. Good.	5 years. Senile. Normal.	Sept. 16, 1896. O. D. Cocaine. Bandage omitted on seventh day. Pupil clear. 20 days.	V. = 0.1. Oct. 16, 1896. V. = 0.2.
3	Male. 48 Amer. Good.	6 years. Senile. Normal.	Sept. 17, 1896. O. S. Cocaine. Capsule very tough. Bandage omitted seventh day. Pupil clear. 14 days.	V. = 0.5. Oct. 16, 1896. V. = 1.
4	Female. 81 Amer. Poor.	8 years. Senile. Normal.	Sept. 18, 1896. O. S. Cocaine. Attempted simple extraction, lens could not be expressed on account of posterior synechiæ. Vitreous presented, and only portion of lens expressed. Sept. 20. Pain, atropine instilled. Bandage omitted on seventh day. Only slight injection, but pupil filled with cortical and contracted. Small corneal ulcer on fifty-seventh day, which perforated. Atrophy of globe. 94 days.	V. = 0.
5	Male. 72 England. Good.	4 years. Senile. Normal.	Oct. 6, 1896. O. D. Cocaine. Atropine. Bandage omitted seventh day. No complications. 17 days.	V. = 0.3. Nov. 14, 1896. V. = 1.
6	Female. 71 England. Good.	2½ years. Senile. Normal.	Oct. 9, 1896. O. S. Cocaine. Atropine. Eye very soft and cornea collapsed after incision. Bandage omitted fifth day. Cortical in pupil, iritis. 34 days.	V. = 0.2.
7	Female. 54 Amer. Good.	2½ years. Senile. Normal.	Oct. 9, 1896. O. D. Cocaine. Atropine. Bandage ommitted fifth day. Some cortical in pupil. 14 days.	V. = 0.1. Nov. 23, 1896. V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
8	Female. 62 Germ'y. Good.	14 years. Senile. Normal. Tremulous iris.	Oct. 10, 1896. O. D. Cocaine. Loss of fluid vitreous, considerable cortical left. Bandage omitted seventh day, mild iritis with cortical in pupil. 21 days.	V. = Fingers. Dec. 24, 1896. V. = 0.7.
9	Female. 65 Ireland. Good.	10 years. Senile. Normal.	Oct. 15, 1896. O. D. Cocaine. Vitreous presented on attempting to express lens. Scoop used. Considerable cortical left. Bandage omitted seventh day. Pupil small and filled with cortical. Nov. 3, 1896. Secondary. 22 days.	V. = 0.2.
10	Female. 74 Amer. Good.	2 years. Senile. Normal.	Oct. 23, 1896. O. D. Cocaine. Atropine. Bandage omitted seventh day, pupil dilated but filled with cortical. Nov. 2, 1896. Patient left against advice and did not wait for visual examination.	V.= Not taken.
11	Male. 57 Amer. Good.	2 years. Senile. Normal.	Nov. 4, 1896. O. S. Cocaine. Simple extraction intended, but iridectomy made to aid removal of large amount of soft cortical. Bandage removed seventh day. Anterior chamber very shallow. Compress applied to twelfth day. Pupil dilated. Capsule opaque. 21 days.	V. = 0.1. Jan. 4, 1897. V. = 0.5.
12	Male. 48 Amer. Good.	2 years. Senile. Normal.	Nov. 12, 1896. O. D. Cocaine. Vitreous fluid. Bandage omitted seventh day. Pupil well dilated. Considerable conjunctival injection. 12 days.	V. = Fingers. Feb. 26, 1897. V. = 0.7.
13	Female. 74 England. Good.	10 years. Senile. Normal.	Nov. 17, 1896. O. S. Cocaine. Patient behaved poorly. Cornea collapsed after incision. Capsule opaque. Considerable cortical left. Bandage omitted seventh day. Iritis, but pupil reacts well under atropine. 57 days.	V. = 0.1. Jan. 7, 1897. V. = 0.3.
14	Male. 76 England. Good.	2 years. Senile. Normal.	Nov. 18, 1896. O. D. Cocaine. Eye soft and cornea collapsed after incision. Bandage omitted fifth day. Pupil dilated. Considerable ocular injection. Capsule opaque. Dec. 11, 1896. Secondary. 30 days.	V. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
15	Male. 75 Ireland. Good.	2 years. Senile. Normal.	Dec. 5, 1896. O. D. Cocaine. Bandage omitted seventh day. Pupil large. Some opaque capsule. 17 days.	V. = 0.4.
16	Male. 68 Ireland. Good.	3 years. Senile. Normal.	Dec. 5, 1896. O. S. Cocaine. Bandage omitted seventh day. Cortical in pupil. 23 days.	V. = 0.1. Feb. 5, 1897. V. = 0.5.
17	Female. 45 Ireland. Good.	1½ years. Senile. Normal.	Dec. 9, 1896. O. D. Cocaine. Simple extraction intended, iridectomy performed as iris had tendency to prolapse. Bandage omitted fifth day. Capsule opaque. Dec. 24, 1896. Secondary. 21 days.	V. = 0.4.
18	Male. 75 Ireland. Good.	2 years. Senile. Normal.	Dec. 10, 1896. O. D. Cocaine. Hemorrhage after iridectomy. Bandage omitted seventh day. Pupil small, filled with blood and cortical. 40 days.	V. = 0.2.
19	Male. 40 Amer. Good.	6 months. Senile. Normal.	Dec. 10, 1896. O. S. Cocaine. Bandage omitted seventh day. Pupil large and clear. 21 days.	V. = 0.2. Jan. 25, 1897. V. = 0.6.
20	Female. 52 England. Good.	1 year. Senile. Normal.	Dec. 12, 1896. O. S. Cocaine. Bandage omitted ninth day. Pupil dilated but filled with opaque capsule. 17 days.	V. = 0.1.
21	Male. 51 Ireland. Good.	6 months. Senile. Doubtful history of injury. Normal.	Dec. 15, 1896. O. D. Cocaine. Bandage omitted seventh day. Pupil clear, with bands of opaque capsule. 36 days.	V. = 0.4. March 4, 1897. V. = 0.5.
22	Male. 60 Italy. Good.	3 years. Senile. Normal.	Dec. 29, 1896. O. S. Cocaine. Bandage omitted seventh day. Jan. 14, 1897. Anterior chamber found empty with prolapse of iris in inner side of wound. Probably traumatic. 19 days.	V. = 0.2. Jan. 29, 1897. V. = 0.3.
23	Female. 56 Ireland. Good.	2 years. Senile. Normal.	Jan. 7, 1897. O. S. Cocaine. Bandage omitted seventh day. Pupil clear. 23 days.	V. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
24	Male. 56 Amer. Good.	3 years. Senile. Normal.	Jan. 7, 1897. O. D. Cocaine. Bandage omitted seventh day. Opaque capsule in pupil. April 10, 1897. Secondary. 35 days.	V. = Shadows. April 15, 1897. V. = 0.6.
25	Male. 68 Ireland. Good.	2 years. Senile. Normal.	Jan. 21, 1897. Cocaine. Bandage omitted seventh day. Pupil clear. 21 days.	V. = 0.4.
26	Male. 74 Amer. Good.	10 years. Senile. (Black.) Normal.	Jan. 23, 1897. O. D. Cocaine. No cortical. Bandage omitted seventh day. Opaque capsule. 19 days.	V. = 0.2.
27	Female. 64 Amer. Good.	3 years. Senile. Normal.	Jan. 26, 1897. O. S. Cocaine. Bandage omitted eighth day. Cortical in pupil. 27 days.	V. = 0.2.
28	Female. 65 Amer. Good.	2 years. Senile. Normal.	Jan. 30, 1897. O. S. Cocaine. Bandage omitted eighth day. Pupil clear. Large choroidal atrophy extending from nerve to macular region.	V. = Fingers.
29	Male. 68 Ireland. Good.	4 years. Senile. Normal.	Feb. 4, 1897. O. D. Cocaine. Bandage omitted eighth day. Pupil clear. 28 days.	V. = 0.5. March 16, 1897. V. = 0.6.
30	Female. 58 Amer. Good.	2 years. Senile. Normal.	Feb. 5, 1897. O. D. Cocaine. Simple extraction intended. Iris wounded, and iridectomy performed. Bandage omitted fifth day. Feb. 26, 1897. Secondary. 31 days.	V. = 0.8.
31	Female. 74 Ireland. Good.	2 years. Senile. Normal.	Feb. 11, 1897. O. S. Cocaine. Bandage omitted eighth day. Opaque capsule. 28 days.	V. = 0.2.
32	Female. 70 Amer. Good.	2 years. Senile. Normal.	Feb. 16, 1897. O. D. Cocaine. Bandage omitted eighth day. Pupil clear. 25 days.	V. = 0.3.
33	Male. 63 Ireland. Good.	2 years. Senile. Normal.	Feb. 22, 1897. O. D. Cocaine. Bandage omitted eighth day. Pupil clear. 18 days.	V. = 0.6.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
34	Male. 45 Ireland. Good.	2 years. Senile. Normal.	Feb. 23, 1897. O. S. Cocaine. Iris wounded. Bandage omitted fifth day. Pupil clear. 28 days.	V. = 0.5.
35	Male. 55 Ireland. Good.	3 years. Senile. Normal.	March 2, 1897. O. D. Cocaine. Bandage omitted seventh day. Blood clot in pupil. 25 days.	V. = 0.5. May 6, 1897. V. = 0.8.
36	Female. 84 Canada. Good.	4 years. Senile. Normal.	March 9, 1897. O. D. Cocaine. Bandage omitted seventh day. Pupil clear. 18 days.	V. = 0.3.
37	Male. 56 Amer. Good.	2 years. Senile. Normal.	March 16, 1897. O. S. Cocaine. Bandage omitted eighth day. Large amount of cortical in pupil. April 17, 1897. Secondary. 39 days.	V. = 0.3.
38	Male. 51 Ireland. Good.	1 year. Senile. Normal.	March 25, 1897. O. S. Cocaine. Bandage omitted eighth day. Pupil clear. 16 days.	V. = 0.2. April 24, 1897. V. = 0.3.
39	Female. 58 Ireland. Good.	3 years. Senile. Normal.	April 7, 1897. O. D. Cocaine. Bandage omitted seventh day. Pupil clear. 16 days.	V. = 0.2.
40	Male. 66 Germ'y. Good.	3 years. Senile. Normal.	April 7, 1897. O. D. Cocaine. Bandage omitted fourth day. Pupil clear. 9 days.	V. = 0.2.
41	Female. 80 Amer. Good.	12 years. Senile. Normal.	April 8, 1897. O. D. Cocaine. Iridectomy performed after extraction of lens. Tendency to prolapse. Bandage omitted sixth day. Cortical in pupil. April 24, 1897. Secondary. 19 days.	V. = 0.2.
42	Female. 64 Amer. Good.	2½ years. Senile. Normal.	April 16, 1897. O. S. Cocaine. Atropine. Bandage omitted sixth day. Anterior chamber empty. May 12, 1897. Wound united but chamber very shallow. 29 days.	V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
43	Female. 49 Germ'y. Good.	1½ years. Senile. Normal.	April 22, 1897. O. D. Cocaine. Central leucoma. Bandage omitted eighth day. Pupil clear.	V. = 0.2.
44	Female. 77 Amer. Good.	6 years. Senile. Normal.	May 6, 1897. O. D. Cocaine. Simple extraction followed by iridectomy on account of large amount of cortical. Bandage omitted eighth day. Hemorrhage into anterior chamber. May 25, 1897. Secondary. 44 days.	V. = 0.1. June 2, 1897. V. = 0.2.
45	Male. 69 Ireland. Good.	3 years. Senile. Normal.	May 22, 1897. O. S. Cocaine. Numerous post. synechiæ, lens cannot be expressed. Scoop used. Some loss of vitreous. Bandage omitted seventh day. 35 days.	V. = 0.2.
46	Male. 66 Canada. Good.	2 years. Senile. Normal.	June 12, 1897. O. D. Cocaine. Patient operated on in chair, asthmatic. Bandage omitted seventh day. Iris adherent to inner side of cut. 30 days.	V. = 0.7.
47	Female. 64 Ireland. Good.	4 years. Senile. Normal.	June 18, 1897. O. D. Cocaine. While attempting iridectomy the patient suddenly moved eye, occasioning iridavulsion. A large black cataract was expressed. Severe reaction followed operation, resulting in hyalitis. 48 days.	V. = Shadows.
48	Female. 65 Ireland. Good.	2 years. Senile. Normal.	July 1, 1897. O. D. Cocaine. Large amount of cortical. Patient struck eye ten days subsequently. Blood in anterior chamber. Bandage omitted twenty-fifth day. 31 days.	V. = 0.3.
49	Male. 62 Amer. Good.	2 years. Senile. Normal.	July 1, 1897. O. D. Cocaine. Iridectomy performed after extraction, to remove a large amount of sticky cortical. Third day, prolapse of iris, followed by iritis. July 29, 1897. Secondary. 31 days.	V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
50	Female. 62 Ireland. Good.	3 years. Senile. Normal.	July 1, 1897. Cocaine. Lens expressed with difficulty. Bandage omitted eighth day. Iris adherent to corneal wound. Iritis. July 24, 1897. Secondary. 31 days.	V. = 0.2.
51	Male. 73 Ireland. Good.	1½ years. Senile. Normal.	July 9, 1897. O. D. Cocaine. Simple extraction intended, iris showing tendency to prolapse, iridectomy performed. Bandage omitted eighth day. Pupil clear. 13 days.	V. = 0.3.
52	Male. 73 Amer. Good.	5 years. Senile. Normal.	July 12, 1897. O. D. Cocaine. Simple extraction intended, but cortical could not be removed. Iridectomy performed. Bandage omitted eighth day. Pupil clear. 15 days.	V. = 1.0.
53	Male. 56 Amer. Good.	3 years. Senile. Normal.	July 17, 1897. O. S. Cocaine. Lens could not be expressed, scoop used. Some vitreous lost. Bandage omitted fifth day. Pupil clear. 19 days.	V. = 0.5.
54	Male. 62 Amer. Good	4 years. Senile. Normal.	July 19, 1897. O. S. Cocaine. Bandage omitted seventh day. Pupil clear. 13 days.	V. = 0.5.
55	Female. 58 Ireland. Good.	4 years. Senile. Normal.	Aug. 12, 1897. O. D. Cocaine. Capsule opaque and tough. Bandage omitted seventh day. Opaque capsule in pupil. 16 days.	V. = 0.1.
56	Male. 45 Amer. Good.	1 year. Blocked pupil. Normal.	Aug. 13, 1897. O. S. Cocaine. Iridectomy previously performed. Sclerosed lens removed with hook. Bandage omitted eighth day. Pupil clear. 8 days.	V. = 0.1.
57	Male. 73 Amer. Good.	3 years. Senile. Normal.	Aug. 17, 1897. O. S. Cocaine. Fluid vitreous, lost during extraction of lens. Cornea collapsed. Bandage omitted eighth day. Pupil clear. 15 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
58	Female. 40 Ireland. Good.	2 years. Senile. Normal.	Aug. 20, 1897. O. D. Cocaine. Patient restless. Cortical fluid. Bandage omitted eighth day. Pupil clear. 21 days.	V. = 0.3.
59	Male. 78 Ireland. Good.	3 years. Senile. Normal.	Aug. 23, 1897. O. S. Cocaine. Atropine. Large dark lens expressed. No cortical. Bandage omitted eighth day. Pupil clear. 24 days.	V. = 0.1.
60	Female. 57 Canada. Good.	2 years. Senile. Normal.	Aug. 31, 1897. O. D. Cocaine. Considerable cortical left. Bandage omitted seventh day. Pupil partly filled with cortical. 18 days.	V. = 0.2.

MATURE SENILE CATARACTS.

Simple Extractions.

1	Male. 50 Amer. Good.	5 years. Senile. Normal.	Dec. 4, 1896. O. D. Cocaine. Eserine. Pupil dilated slowly. Considerable soft cortical. Bandage omitted fourth day. Pupil central and small, dilated well under atropine. Dec. 23, 1896. Secondary. 27 days.	V. = 1.0.
2	Male. 60 Canada. Good.	2 years. Senile. Normal.	Dec. 4, 1896. O. D. Cocaine. Eserine. Sudden movement of eye caused knife to puncture iris. Large amount of cortical. Bandage omitted fourth day. Anterior chamber evacuated sixth day. Iris attached to posterior surface of incision. Pupil dilates well. Dec. 21, 1896. Secondary. 25 days.	V. = 0.5. Feb. 9, 1897. V. = 1.0.
3	Male. 67 Amer. Good.	1 year. Senile. Normal.	Dec. 7, 1896. O. S. Cocaine. Eserine. Bandage omitted fifth day. Pupil central, dilated well under atropine. Some keratitis. Dec. 24, 1896. Secondary. 30 days.	V. = 0.3. March 12, 1897. V=0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
4	Male. 44 Ireland. Good.	10 years. Senile. Normal.	Dec. 9, 1896. O. S. Cocaine. Eserine. Bandage omitted fifth day. Iritis, pupil dilates slightly under atropine. Dec. 28. Secondary. 26 days.	V. = 0.7. Jan. 21, 1897. V. = 1.0.
5	Female. 71 Amer. Good.	2 years. Senile. Normal.	Dec. 9, 1896. O. D. Cocaine. Eserine. Bandage omitted fifth day. Some iritis. Pupil dilates slightly under atropine. Dec. 28. Secondary. 26 days.	V. = 0.2.
6	Female. 60 Ireland. Good.	6 months. Senile. Normal.	Dec. 10, 1896. O. D. Cocaine. Eserine. Bandage omitted fourth day. Pupil dilated fully under atropine. Dec. 15. Patient found with soiled handkerchief tied over eye. Dec. 16. Cornea hazy with chemosis. Dec. 21. Panophthalmitis. Enucleation.	V. = 0.0.
7	Male. 60 Ireland. Good.	5 years. Senile. Normal.	Dec. 14, 1896. O. D. Cocaine. Eserine. Some difficulty in expressing lens, small bead of vitreous presented and snipped off. Bandage omitted fifth day. Iris attached inner part of wound. Jan. 1, 1897. Secondary. 40 days.	V. = 0.4. March 8, 1897. V. = 0.4.
8	Male. 70 England. Good.	3 years. Senile. Normal.	Dec. 16, 1896. O. S. Cocaine. Eserine. Cornea collapsed after cut. Bandage omitted fifth day. Pupil small and filled with cortical. Jan. 1, 1897. Secondary. 41 days.	V. = 0.4.
9	Male. 62 Amer. Good.	3½ years. Senile. Normal.	Dec. 23, 1896. O. D. Cocaine. Eserine. Cornea collapsed after incision. Bandage omitted fourth day. Pupil dilated well under atropine. Jan. 8, 1897. Secondary. 22 days.	V. = 0.3. Jan. 22, 1897. V. = 0.6.
10	Male. 69 Ireland. Good.	2 years. Senile. Normal.	Dec. 30, 1896. O. D. Cocaine. Eserine. Bandage omitted fifth day. Pupil small but clear. 17 days.	V. = 0.4. Feb. 3, 1897. V. = 1.0.
11	Male. 76 Amer. Good.	2 years. Senile. Normal.	Dec. 30, 1896. O. D. Cocaine. Eserine. Bandage omitted fifth day. Opaque capsule. Jan. 13, 1897. Secondary. 18 days.	V. = 0.1. Feb. 25, 1897. V. = 0.6.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
12	Male. 59 Ireland. Good.	3 years. Senile. Normal.	Jan. 4, 1897. O. S. Cocaine. Eserine. Bandage omitted sixth day. Pupil small and central, dilates slightly under atropine. Jan. 20, 1897. Secondary. 22 days.	V. = 0.3. April 6, 1897. V. = 0.4.
13	Male. 54 Ireland. Good.	3 years. Senile. Normal.	Jan. 4, 1897. O. D. Cocaine. Eserine. Bandage omitted sixth day. Pupil small and central. Dilates well under atropine. Jan. 20, 1897. Secondary. 22 days.	V. = 0.8.
14	Female. 66 Amer. Fair.	2 years. Senile. Normal.	Jan. 8, 1897. O. D. Cocaine. Eserine. Bandage omitted fifth day. Pupil small and central. 18 days.	V. = 0.2.
15	Male. 78 Ireland. Good.	10 years. Senile. Normal.	Jan. 11, 1897. O. D. Cocaine. Eserine. Patient restless. Some vitreous lost. Bandage omitted fifth day. Pupil dilates irregularly under atropine. 30 days.	V. = 0.2.
16	Female. 60 Ireland. Good.	3 years. Senile. Normal.	Jan. 11, 1897. O. D. Cocaine. Eserine. Bandage omitted fourth day. Considerable pain. Iritis. Pupil small and does not dilate under atropine. 33 days.	V. = 0.3. Feb. 26, 1897. V. = 0.6.
17	Male. 50 Ireland. Good.	3 years. Senile. Normal.	Jan. 14, 1897. O. S. Cocaine. Eserine. Incision followed by loss of vitreous. Scoop. Vitreous snipped off close to wound. Jan. 17, 1897. Prolapse of iris. Separation of retina. 39 days.	V. = Shadows.
18	Male. 75 Ireland. Good.	4 years. Senile. Normal.	Jan. 27, 1897. O. D. Cocaine. Eserine. Bandage omitted fifth day. Anterior chamber evacuated by sudden movement of patient. Feb. 20, 1897. Secondary. 30 days.	V. = 0.6.
19	Male. 49 Amer. Good.	5 years. Senile. Normal.	Feb. 3, 1897. O. S. Cocaine. Eserine. Iris prolapsed after incision. Cortical fluid. Loss of vitreous. Bandage omitted fifth day. Pupil elongated. 24 days.	V. = 0.7.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
20	Male. 60 Amer. Good.	1½ years. Senile. Normal.	Feb. 3, 1897. O. S. Cocaine. Eserine. Vitreous lost. Bandage omitted fifth day. Pupil dilates irregularly. Feb. 22, 1897. Secondary. 21 days.	V. = 0.2.
21	Male. 67 Amer. Good.	20 years. Senile. Normal.	Feb. 3, 1897. O. D. Cocaine. Eserine. Bandage omitted seventh day. Pupil central, dilates well under atropine. Feb. 22, 1897. Secondary. 31 days.	V. = 0.2.
22	Male. 56 Cuba. Good.	3 years. Senile. Normal.	Feb. 3, 1897. O. D. Cocaine. Eserine. Bandage omitted fifth day. Opaque capsule and cortical in pupil. Pupil oval. 28 days.	V. = 0.2.
23	Male. 53 Amer. Good.	7 years. Senile. Normal.	Feb. 3, 1897. O. D. Cocaine. Eserine. Bandage omitted fifth day. Pupil small, central and clear. 16 days.	V. = 1.
24	Male 51 Amer. Good.	4 years. Senile. Normal.	Feb. 17, 1897. O. D. Cocaine. Eserine. Bandage omitted sixth day. Pupil dilates well. Capsule opaque. March 15, 1897. Secondary. 28 days.	V. = 0.5. Jan. 16, 1897. V. = 0.6.
25	Female. 51 Ireland. Good.	5 years. Senile. Normal.	Feb. 22, 1897. O. D. Cocaine. Eserine. Bandage omitted fifth day. Vitreous in wound. Iris drawn upwards and backwards. Some cortical in pupil. March 15, 1897. Secondary, 26 days.	V. = 1.
26	Male. 62 England. Good.	1½ years. Senile. Normal.	March 3, 1897. O. D. Cocaine. Eserine. Bandage omitted fifth day. Pupil central, but no anterior chamber. March 10. Anterior chamber re-establishd, grayish line of infiltration along incision. March 11. Hypopion. March 12. Enucleation.	V. = 0.
27	Female. 65 Amer. Good.	3 years. Senile. Normal.	March 3, 1897. O. S. Cocaine. Eserine. Bandage omitted sixth day. Pupil central and clear. 12 days.	V. = 0.2. April 22, 1897. V. = 0.6.
28	Male. 68 Ireland. Good.	2 years. Senile. Normal.	March 5, 1897. O. S. Cocaine. Eserine. Bandage omitted sixth day. Pupil clear. 20 days.	V. = 0,4. April 15, 1897. V. = 0.9.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
29	Female. 75 Amer. Good.	3 years. Senile. Normal.	March 12, 1897. O. D. Cocaine. Section was made without difficulty. Patient complained of severe pain. Vitreous prolapsed after extraction, followed by profuse hemorrhage. Enucleation.	V. = 0.
30	Female. 71 Amer. Good.	5 years. Senile. Normal.	March 19, 1897. Cocaine. Eserine. Opaque capsule removed with forceps. Bandage omitted fifth day. Iritis. 24 days.	V. = 0.5.
31	Male. 60 Canada. Good.	1½ years. Senile. Normal.	March 12, 1897. O. S. Cocaine. Eserine. Bandage omitted sixth day. Pupil dilates well, and clear. 17 days.	V. = 0.5. June 22, 1897. V. = 1.0.
32	Female. 51 Amer. Good.	15 years. Senile. Normal.	March 23, 1897. O. D. Cocaine. Eserine. Bandage omitted seventh day. Iris bulging in centre of wound and turned in at pupil. 34 days.	V. = 0.5.
33	Male. 68 Canada. Good.	3 years. Senile. Normal.	April 29, 1897. O. D. Cocaine. Eserine. Bandage omitted sixth day. Pupil small and filled with opaque capsule. May 1, 1897. Secondary. 17 days.	V. = 0.1. June 18, 1897. V. = 0.5.
34	Male. 63 Amer. Good.	6 years. Senile. Normal.	April 29, 1897. O. D. Cocaine. Atropine. Bandage omitted sixth day. Pupil central, good size. Cortical. May 15. Secondary. 13 days.	V. = 0.2. May 18, 1897. V. = 0.5.
35	Female. 72 Ireland. Good.	3 years. Senile. Normal.	May 1, 1897. O. D. Cocaine. Eserine. Tremulous iris, lens dislocated. Lens removed with scoop. Loss of vitreous. Bandage omitted sixth day. 11 days.	V. = 0.1.
36	Female. 62 Sweden. Good.	2 years. Senile. Normal.	May 4, 1897. O. S. Cocaine. Bandage omitted sixth day. Pupil central and dilated. 12 days.	V. = 0.1. June 15, 1897. V. = 0.4.
37	Female. 68 England. Good.	5 years. Senile. Normal.	May 6, 1897. O. D. Cocaine. Eserine. Iris tremulous, considerable cortical left. Bandage omitted seventh day. Adhesion of iris inner part of wound. May 15, 1897. Secondary. 13 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
38	Female. 46 Amer. Good.	1 year. Senile. Normal.	June 12, 1897. O. D. Cocaine. Considerable cortical left. Bandage omitted sixth day. Pupil filled with cortical. Iritis. 44 days.	V. = 0.2.
39	Male. 68 Canada. Good.	1 year. Senile. Normal.	June 19, 1897. O. D. Cocaine. Atropine. Bandage omitted fifth day. Opaque capsule. July 1, 1897. Secondary. 19 days.	V. = 0.3.
40	Female. 64 Amer. Good.	5 years. Senile. Normal.	July 3, 1897. O. D. Cocaine. Bandage omitted sixth day. Pupil clear and dilated. 21 days.	V. = 0.3.
41	Male. 55 Ireland. Good.	1½ years.	July 15, 1897. O. S. Cocaine. Pilocarpine. Bandage omitted fifth day. Pupil clear and central, dilates moderately. 17 days.	V. = 0.3. Aug. 27, 1897. V. = 0.5.

MATURE SENILE CATARACTS.

Simple Extractions, with Buttonhole of Iris.

1	Male. 70 Amer. Good.	1 year. Senile. Normal.	Sept. 16, 1896. O. S. Cocaine. Bandage omitted seventh day. Large prolapse of iris. Sept. 24, 1896. Prolapse excised. Monocular bandage. 33 days.	V. = 0.1. Nov. 25, 1896. V. = 0.3.
2	Male. 62 Amer. Good.	8 years. Black lens. Fluid vitreous. Normal.	Sept. 17, 1896. O. S. Cocaine. Atropine. Bandage omitted seventh day. Pupil central and dilated. No complications. 13 days.	V. = 0.1. Oct. 8, 1896. V. = 0.2.
3	Male. 75 England. Good.	2 years. Senile. Normal.	Sept. 21, 1896. O. S. Cocaine. Atropine. Bandage omitted seventh day. Pupil well dilated. Capsule opaque. Oct. 12, 1896. Secondary. No complications. 24 days.	V. = 0.1. Nov. 16, 1896. V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
4	Male. 58 Ireland. Good.	1 year. Senile. Normal.	Sept. 24, 1896. O. S. Cocaine. Atropine. Tension low, difficulty in expressing lens. Bandage omitted seventh day. Pupil dilates but irregularly. Mild iritis. 37 days.	V. = 0.1. Dec. 9, 1896. V. = 0.4.
5	Male. 64 Amer. Good.	10 years. Senile. Normal.	Sept. 24, 1896. O. S. Cocaine. Atropine. Capsule opaque and was removed by forceps. Bandage omitted seventh day. Pupil clear. Ophthalmoscope shows choroidal atrophy. No complications.	V. = 0.05.
6	Female. 63 Ireland. Good.	4 years. Senile. Normal.	Sept. 26, 1896. O. S. Cocaine. Atropine. Aqueous was suddenly lost after counter puncture. Knife withdrawn, and flap completed with scissors. Bandage omitted seventh day. Pupil oval. No complications. 26 days.	V. = 0.1. Nov. 6, 1896. V. = 0.2.
7	Male. 48 Canada. Good.	1 year. Doubtful traumatic history. Normal.	Oct. 2, 1896. O. S. Cocaine. Atropine. Monocular bandage, omitted eighth day. Pupil dilated irregularly. Considerable cortical. Mild iritis. 21 days.	V. = 0.2.
8	Female. 65 Ireland. Good.	1 year. Senile. Normal.	Oct. 3, 1896. O. D. Cocaine. Atropine. Bandage omitted seventh day. Pupil well dilated and clear. No complications. 21 days.	V. = 0.1.
9	Male. 67 Ireland. Good.	13 years. Emphysema with albumen. Normal.	Oct. 5, 1896. O. D. Cocaine. Atropine. Bandage omitted seventh day. Pupil dilated. Capsule opaque. No complications. 15 days.	V. = 0.1.
10	Female. 55 Amer. Good.	5 years. Senile. Normal.	Oct. 16, 1896. O. D. Cocaine. Atropine. Bandage omitted fifth day. Pupil dilated and clear. No complications. 22 days.	V. = 0.2. Dec. 15, 1896. V. = 1.
11	Female. 58 Amer. Good.	8 years. Senile. Normal.	Oct. 20, 1896. O. S. Cocaine. Atropine. Bandage omitted seventh day. Pupil dilated and clear. No complications. 11 days.	V. = 0.5. Dec. 5, 1896. V. = 0.5.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
12	Male. 69 Amer. Good.	1 year. Senile. Poor.	Oct. 21, 1896. O. S. Cocaine. Atropine. Bandage omitted seventh day. Pupil contracted. Capsule opaque. No complications. 17 days.	V. = 0.1. Dec. 28, 1896. V. = 0.3
13	Male. 54 France. Good.	1½ years. Senile. Normal.	Oct. 24, 1896. O. S. Cocaine. Atropine. Free bleeding of iris after making button hole. Bandage omitted seventh day. Pupil dilated. Cortical and blood. No complications.	V. = 0.2. Jan. 10, 1897. V. = 0.8.
14	Female. 58 Amer. Good.	2 years. Senile. Normal.	Oct. 29, 1896. O. D. Cocaine. Atropine. Bandage omitted seventh day. Pupil fully dilated. Some cortical. No complications. 12 days.	V. = 0.2. Nov. 29, 1896. V. = 0.3.
15	Female. 61 Canada. Good.	1 year. Senile. Normal.	Oct. 31, 1896. O. S. Cocaine. Atropine. Bandage omitted seventh day. Pupil dilated. Capsule opaque. No complications. 12 days.	V. = 0.1.
16	Male. 62 Amer. Good.	2 years. Senile. Normal.	Nov. 9, 1896. O. S. Cocaine. Atropine. Bandage omitted seventh day. Considerable photophobia. Pupil filled with cortical, well dilated. No complications. Ophthalmoscope shows opacities, with choroidal atrophy. 34 days.	V. = 0.05.
17	Female. 57 Ireland. Good.	2 years. Senile. Normal.	Nov. 18, 1896. O. D. Cocaine. Atropine. Bandage omitted fifth day. Pupil dilated and clear. No complications. 14 days.	V. = 0.9.
18	Female. 45 Ireland. Good.	2 years. Senile. Normal.	Nov. 19, 1896. O. D. Cocaine. Atropine. Bandage omitted seventh day. Pupil well dilated, opaque capsule. Dec. 7, 1897. Secondary. No complications. 22 days.	V. = 1.
19	Female. 78 Canada. Good.	2 years. Senile. Normal.	April 6, 1897. O. D. Cocaine. Atropine. April 8. Prolapse of iris, cortical in anterior chamber. April 13. Increase of prolapse, excised. 25 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
20	Female. 62 Ireland. Good.	11 years. Senile. Normal.	April 10, 1897. O. D. Cocaine. Eserine. Bandage omitted sixth day. Pupil central. Ophthalmoscope shows choroidal atrophy extending to macula region. April 22, 1897. Secondary. No complications. High myopia.	V. = 0.1.
21	Female. 67 Ireland. Good.	2 years. Senile. Normal.	April 22, 1897. O. D. Cocaine. Eserine. Bandage omitted sixth day. Pupil good size but irregular. Iritis. 30 days.	V. = 0.2. Mar. 2, 1897. V. = 1.
22	Male. 66 Ireland. Good.	3 years. Senile. Normal.	April 29, 1897. O. D. Cocaine. Bandage omitted fifth day. Opaque capsule with mild iritis. May 11, 1897. Secondary. 18 days.	V. = 0.5.
23	Female. 68 Amer. Good.	3 years. Senile. Normal.	May 1, 1897. O. S. Cocaine. Eserine. Bandage omitted fourth day. Pupil central, well dilated and clear. Ophthalmoscope shows large choroidal atrophy. High myopia. No complications.	V. = 0.1.
24	Female. 49 Germ'y. Good.	2 years. Senile. Normal.	May 18, 1897. O. S. Cocaine. Eserine. Bandage omitted fifth day. Capsule opaque with corneal opacities. May 27. Secondary. No complications. 19 days.	V. = 0.2.
25	Male. 60 Ireland. Good.	1 year. Senile. Normal.	May 25, 1897. O. D. Cocaine. Eserine. Bandage omitted fifth day. Pupil dilated, capsule opaque. June 5, 1897. Secondary. No complications. 26 days.	V. = 0.5.
26	Male. 70 Canada. Good.	9 years. Senile. Normal.	May 27, 1897. O. S. Cocaine. Eserine. Bandage omitted fifth day. Iris adherent to inner side of wound. June 10, 1897. Secondary. 29 days.	V. = 0.3.
27	Female. 74 England. Good.	2 years. Senile. Normal.	June 3, 1897. O. D. Cocaine. Eserine. Bandage omitted third day. Some chemosis. Pupil small. Iritis. 17 days.	V. = 0.1.
28	Male. 51 Canada. Good.	1 year. Senile. Normal.	June 3, 1897. O. S. Cocaine. Eserine. Bandage omitted third day. Pupil clear. No complications. 12 days.	V. = 0.2. July 6, 1897. V. = 0.9.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
29	Female. 63 Ireland. Good.	3 years. Senile. Normal.	June 4, 1897. O. D. Cocaine. Iodoform. Bandage omitted seventh day. Good round pupil but some iritis. June 21, 1897. Secondary. 22 days.	V. = 0.3. July 21, 1897. V. = 0.5.
30	Male. 80 Amer. Good.	2 years. Senile. Normal.	June 9, 1897. O. S. Cocaine. Iodoform. Bandage omitted fifth day. Capsule opaque. June 21, 1897. Secondary. No complications. 17 days.	V. = 0.4.
31	Male. 79 Amer. Good.	9 years. Senile. Doubtful.	June 15, 1897. O. S. Cocaine. Atropine. Bandage omitted fifth day. Pupil clear. No complications. 15 days.	V. = 0.4.
32	Female. 65 Ireland. Good.	3 years. Senile. Normal.	June 11, 1897. O. S. Cocaine. Iodoform. Bandage omitted sixth day. Pupil drawn backwards. Severe pain. June 17, 1897. Secondary for relief of pain. 31 days.	V. = 0.3.
33	Female. 46 Amer. Good.	1½ years. Senile. Normal.	June 16, 1897. O. D. Cocaine. Atropine. Iodoform. Bandage omitted sixth day. Prolapse of iris. 18 days.	V. = 0.1.
34	Female. 50 Ireland. Good.	2 years. Senile. Normal.	June 18, 1897. O. S. Cocaine. Iodoform. Bandage omitted seventh day. Pupil large, and almost filled with opaque capsule. July 9, 1897. Secondary. No complications.	V. = 0.5.
35	Male. 63 Amer. Good.	2 years. Senile. Normal.	June 30, 1897. O. D Cocaine. Bandage omitted fifth day. Pupil good size and central. No complications. 17 days.	V. = 0.3.
36	Male. 60 Amer. Good.	2 years. Senile. Normal.	Aug. 17, 1897. O. D. Cocaine. Atropine. Bandage omitted eighth day. Pupil clear. No complications. 20 days.	V. = 0.5.
37	Female. 63 Amer. Good.	3 years. Senile. Normal.	Aug. 26, 1897. O. D. Cocaine. Atropine. Bandage omitted eighth day. Some muco-purulent discharge both eyes. Capsule opaque. 26 days.	V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
38	Female. 72 Ireland. Good.	5 years. Senile. Normal.	Aug. 30, 1897. O. D. Cocaine. Atropine. Lens large and black. No cortical. Bandage omitted eighth day. No complications. 15 days.	V. = 0.3.
39	Female. 74 Ireland. Good.	5 years. Senile. Normal.	Aug. 30, 1897. O. D. Cocaine. Atropine. Large amount of soft cortical. Sept. 4, 1897. Patient removed bandage during night. Chemosis. Sept. 5. Cornea hazy. Sept. 7. Panophthalmitis.	V. = 0.0.

TRAUMATIC AND OTHER CATARACTS NOT SENILE.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	Female. 22 Canada. Good.	17 years. Traumatic. Normal.	Oct. 15, 1896. O. D. Simple linear. Cocaine. Atropine. Cortical fluid. Bandage omitted seventh day. Pupil dilated. Cortical. Oct. 24, 1897. Secondary. 12 days.	V. = 0.4.
2	Female. 20 Amer. Good.	20 years. Congenital. Normal.	Oct. 26, 1896. O. S. Discission. Cocaine. Atropine. 28 days.	Not taken.
3	Male. 38 Amer. Good.	6 weeks. Traumatic. Normal.	Oct. 27, 1896. O. D. Suction. Cocaine. Considerable swelling. Cortical. 58 days.	V. = P. L.
4	Male. 48 Amer. Good.	2 years. Traumatic. Normal. Synechiæ.	Oct. 28, 1896. O. S. Modified Graefe. Cocaine. Bandage omitted ninth day. Pupil dilated and clear. Cloudy vitreous.	V. = shadows.
5	Male. 48 Canada. Good.	3 weeks. Traumatic. Steel in globe.	Oct. 27, 1896, O. S. Simple extraction. Magnet introduced into pupil. Steel searched for unsuccessfully. Vitreous cloudy. 23 days.	V. = 0.05.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
6	Male. 11 mos. Amer. Good.	Congenital.	Nov. 2, 1896. O. D. Cocaine. Discission. Bandage omitted second day. Seventh day signs of atropine poisoning. Sixteenth day diphtheritic membrane on lids. Transferred to Boston City Hospital.	
7	Male. 11 mos. Amer. Good.	Congenital.	Nov. 2, 1896. O. S. Same as above.	
8	Female. 29 Ireland. Good.	15 years. Traumatic. Normal.	Nov. 11, 1896. O. S. Cocaine. Modified Graefe. Posterior synechiæ. Bandage omitted ninth day. Large separation of retina. 20 days.	V. = P. L.
9	Male. 50 Sweden. Good.	10 months. Traumatic. Normal.	Nov. 13, 1896. O. D. Cocaine. Simple extraction. Piece of steel removed with lens. Bandage omitted fifth day. Pupil well dilated. 11 days.	V. = 0.4.
10	Male. 18 mos. Amer. Good.	Congenital.	Nov. 7, 1896. O. D. Ether. Discission. Patient developed diphtheria. Transferred to Boston City Hospital. 14 days.	V. = P. L.
11	Male. 18 mos. Amer. Good.	Congenital.	Nov. 7, 1896. O. S. Same as case 10.	V. = P. L.
12	Male. 17 Amer. Good.	5 years. Traumatic. Lens shrunken. Normal.	Dec. 9, 1896. O. D. Cocaine. Discission. Anterior synechia divided. Bandage omitted fifth day. Considerable swelling of cortical. Feb. 26, 1897. Secondary. 19 days.	V. = P. L. April 27, 1896. V. = 0.6.
13	Male. 25 Amer. Good.	2 years. Traumatic. Normal.	Dec. 28, 1896. O. D. Cocaine. Eserine. Simple extraction. Iris wounded. Considerable cortical left. Small prolapse of vitreous. Bandage omitted third day. Pupil large and regularly dilated. 29 days.	V. = 0.5.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
14	Male. 10 Canada. Good.	Congenital. Normal.	Jan. 5, 1897. O. S. Cocaine. Atropine. Discission. Bandage omitted seventh day. 11 days.	V. = shadows.
15	Female. 11 Amer. Good.	Traumatic. Normal.	Jan. 6, 1897. O. D. Cocaine. Atropine. Discission. Bandage omitted second day. Considerable swelling. Cortical. 51 days.	V. = 1.0.
16	Male. 9 Amer. Good.	Congenital. Normal.	Jan. 18, 1897. O. D. Cocaine. Atropine. Discission. Jan. 20, large amount of cortical in anterior chamber. Feb. 4, absorption slow. 77 days.	V. = 0.1.
17	Male. 30 Amer. Good.	4 years. No history of injury. Normal.	Jan. 20, 1897. O. D. Cocaine. Eserine. Simple extraction. Nucleus dark and large, without cortical. Bandage omitted fifth day. Pupil round and central. Feb. 2, 1897. Secondary. 26 days.	V. = 0.4. March 14, 1897. V. = 1.0.
18	Female 38 Amer. Good.	6 weeks. Traumatic. Normal.	Jan. 23, 1897. O. S. Cocaine. Simple extraction. Bandage omitted third day. Pupil filled with cortical. 12 days.	V. = shadows.
19	Female. 4 Amer. Good.	Congenital. Normal.	Jan. 23, 1897. O. S. Ether. Discission. Bandage omitted second day. 19 days.	V. = P. L.
20	Male. 57 Scotland Good.	7 years. Traumatic. Normal.	Feb. 8, 1897. O.D. Cocaine. Eserine. Simple extraction. Chip of steel removed with lens. Bandage omitted fifth day. Pupil oval. Feb. 22, 1897. Secondary. 23 days.	V. = 0.5. March 10, 1897.
21	Female. 37 Amer. Good.	1½ years. Normal.	Feb. 15, 1897. O. D. Cocaine. Eserine. Simple extraction. Bandage omitted eighth day. Mild iritis. Large posterior staphyloma. 28 days.	V. = 0.2.
22	Male. 33 Norway. Good.	1 year. Traumatic. Normal.	Feb. 26, 1897. O. D. Cocaine. Eserine. Simple extraction. Piece of steel expressed with lens. Bandage omitted fourth day. Seventh day iris became adherent to corneal wound. 18 days.	V. = 0.3. March 29, 1897. V. = 0.9.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
23	Male. 30 Ireland. Good.	1 year. Traumatic. Normal.	Feb. 26, 1897. O. D. Cocaine. Simple extraction. Bandage fourth day. Numerous small corneal opacities. F. B. in cornea. 17 days.	V. = 0.5.
24	Male. 21 England. Good.	Traumatic. Normal.	Feb. 26, 1897. O. S. Cocaine. Eserine. Simple extraction. Bandage omitted fourth day. Pupil central. Capsule opaque. March 10, 1897. Secondary. 19 days.	V. = 0.4.
25	Male. 17 Amer. Good.	1 year. Traumatic. Normal.	March 1, 1897. O. D. Cocaine. Discission. Absorption slow. April 16, 1897. Discission repeated. March 6, 1897. Secondary. 44 days.	V. = 0.4.
26	Male. 7 Amer. Good.	Congenital. Normal.	March 15, 1897. O. D. Ether. Discission. April 7, 1897. Discission. 46 days.	V. = shadows.
27	Male. 3 Amer. Good.	Congenital. Normal.	March 16, 1897. O. D. Ether. Discission. 18 days.	V. = shadows.
28	Male. 15 Amer. Good.	Congenital. Normal.	March 23, 1897. O. D. Cocaine. Discission. 18 days.	V. = 0.2.
29	Female. 11 mos. Good.	Congenital.	April 12, 1897. Cocaine. Discission. Iodoform. 4 days.	V. = ?
30	Male. 39 Sweden. Good.	4 mos. Traumatic. Normal.	April 16, 1897. O. D. Cocaine. Iodoform. Discission. Bandage omitted third day. 14 days.	V. = shadows. July 26, 1897. V. = 1.0.
31	Male. 8 Amer. Good.	Congenital. Normal.	April 12, 1897. O. S. Cocaine. Discission. April 28, 1897. Discission repeated. 18 days.	V. = shadows.
32	Male. 35 Amer. Good.	3 years. Traumatic. Normal.	April 28, 1897. O. S. Cocaine. Discission. June 9, 1897. Opaque capsule divided. 2 days.	V. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
33	Female. 22 Finland. Good.	10 months. ? Normal.	April 30, 1897. O. S. Cocaine. Discission. Suction intended, but broad needle could not puncture capsule. Stop needle used. 23 days.	V. = shadows.
34	Male. 28 Canada. Good.	20 days. Traumatic. Normal.	May 21, 1897. O. D. Cocaine. Discission. May 24, 1897. Swollen cortical filling anterior chamber. June 28, 1897. Suction. 31 days.	V. = shadows. July 30, 1897. V. = 0.2.
35	Male. 21 Amer. Good.	1 year. Normal.	May 21, 1897. O. D. Cocaine. Suction. June 15, 1897. Suction repeated. 31 days.	V. = 1.0.
36	Female. 30 Ireland. Good.	20 years. Traumatic. Doubtful.	May 22, 1897. O. D. Cocaine. Simple extraction. Lens dislocated into anterior chamber for some years. Operation performed for cosmetic purposes at patient's request. 7 days.	V. = fingers. 3 feet.
37	Male. 42 Ireland. Good.	5 weeks. Traumatic. Normal.	May 28, 1897. O. S. Cocaine. Iodoform. Suction. All lens matter removed. 5 days.	V. = 0.6. June 14, 1897. V. = 1.0.
38	Male. 21 Amer. Good.	1 year. ? Normal.	June 21, 1897. O. D. Cocaine. Iodoform. Discission. Bandage omitted third day, small amount of cortical in anterior chamber. July 9, 1897. Discission repeated. July 30, 1897. Suction. 47 days.	V. = 1.0.
39	Male. 8 Amer. Good.	Congenital. Normal.	June 28, 1897. O. D. Cocaine. Iodoform. Discission. 22 days.	V. = 0.5.
40	Female. 5 Amer. Poor.	Congenital. Normal.	July 9, 1897. O. D. Cocaine. Attempted discission, but needle would not enter capsule. Aug. 12, 1897. Ether. Discission.	V. = ?

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing process. Duration of Treatment.	Vision.
41	Male. 29 Amer. Good.	2 years. Traumatic. Normal.	July 10, 1897. O. S. Cocaine. Simple extraction. Small piece of iron expressed with lens. Bandage omitted fourth day. July 22, 1897. Secondary. 18 days.	V. = 0.7.
42	Male. 61 Amer. Good.	50 years. Traumatic. Normal.	July 26, 1897. O. D. Cocaine. Simple extraction. Lens calcareous and removed with scoop. Bandage omitted fifth day. Cornea hazy. Leucoma. 13 days.	V. =
43	Female. 6 Amer. Good.	Congenital. Normal.	Aug. 14, 1897. O. D. Ether. Discission. Aug. 30, 1897. O. D. Ether. Discission.	V. = ?
44	Female. 6 Amer. Good.	Congenital.	Aug. 14, 1897. O. D. Cocaine. Discission. Bandage omitted second day. Aug. 29, 1897. Discission. Still in Infirmary.	V. = 0.1.
45	Male. 21 Amer. Good.	16 years. Traumatic. Normal.	Aug. 24, 1897. O. S. Cocaine. Discission. Aug. 23, 1897. Discission. Aug. 29, 1897. Discission.	V. = 0.1.
46	Male. 16 Amer. Good.	10 years. No history of traumatism.	Aug. 31, 1897. O. S. Cocaine. Discission. Sept. 2, 1897. Pupil filled with cortical. Still in Infirmary.	V. = shadows.

REPORT OF AURAL SURGEONS.

The Board of Aural Surgeons respectfully present herewith a tabulated report of their work during the year ending September 30, 1897. The number of surgical operations performed during the year has been largely in excess of any previous year in the history of the Infirmary. The increase has been to a great extent made up of the most serious cases of mastoid and brain operations. A statistical report compiled by the house-officer, Dr. White, is appended.

The clinic room is wholly inadequate to the increased demand for space. This is a matter of greatest importance for the successful carrying on of the work. It is hoped that in the near future the new building will in every way meet the difficulty.

Systematic instruction in the diagnosis and treatment of diseases of the ear and nose has been given to medical practitioners and students throughout the year.

In their work the Surgeons have been very efficiently aided by the Superintendent, Clinical Assistants, House-Officers and Nurses.

FREDERICK L. JACK, M. D.,
For the Board of Aural Surgeons.

October 21, 1897.

DISEASES OF HOUSE-PATIENTS.

I. DISEASES OF THE EXTERNAL EAR.

a. *Inflammations.*

	R.	B.	L.
Abscess of tragus	0	0	1
Trauma	0	0	1
Hæmatoma	0	0	1

b. *Deformities.*

Congenital fistula of auricle	1	0	0
Congenital fistula of auricle with inflamed cyst	0	0	1

c. *Neoplasms.*

Cyst of lobe	2	0	1

II. MEATUS.

Cerumen	1	0	0

a. *Inflammations.*

Acute diffuse inflammation	3	0	4
Acute diffuse inflammation with post-aural abscess	0	0	1

b. *Deformities.*

Atresia acquired	4	0	0
Microtia	1	0	0

III. DISEASES OF THE MIDDLE EAR.

Chronic secretory catarrhal inflammation	1	0	1
Adhesive catarrhal inflammation, secretory	0	1	0
Adhesive catarrhal inflammation, secretory with labyrinthine disease	0	1	0

Acute Inflammation.

Simple	1	2	1
With abscess of auricle	1	0	1
With post-aural abscess	1	0	0
With facial paralysis	1	0	0
With adenoids	2	0	1

Acute Suppurative Inflammation.

Simple	12	7	13
With circumscribed inflammation of external canal	1	0	1

With diffuse inflammation of external canal	4	1	1
With facial paralysis	1	0	0
With mastoiditis	29	3	32
With mastoiditis and abscess of neck	1	0	1
With post-aural abscess	1	0	0
With caries of temporal bone	1	0	0
With caries of mastoid	19	1	28
With caries of mastoid and granulations on dura	0	0	1
With caries of tympanum	0	0	1
With caries of mastoid and meningitis	0	0	1
With adenoids	0	1	2

Chronic Suppurative Inflammation.

Simple	6	3	9
With diffuse inflammation of external canal	2	1	0
With granulations and eczema of meatus	1	0	0
With caries of meatus	1	0	0
With granulations of the tympanum	6	4	1
With polypus in the tympanum	2	0	4
With polypus in the meatus	1	0	1
With polypus in the tympanum and meatus	0	0	1
With polypus in the tympanum and carious ossicles	1	0	0
With carious ossicles	6	0	6
With granulations and carious ossicles	0	1	0
With mastoiditis	4	0	4
With caries of mastoid	15	1	14
With mastoiditis and polypus in the tympanum	0	0	1
With necrosis of the temporal bone	0	0	2
With caries of mastoid and meningitis	1	0	0
With abscess of cerebellum	1	0	0
With caries of mastoid and extra dural abscess	0	0	1
With caries of temporal bone	0	0	1
With caries of temporal and parietal	0	0	1

Effect of Chronic Suppurative Inflammation.

Simple	2	5	0
With caries of meatus	1	0	0

IV. DISEASES OF THE LABYRINTH.

Labyrinthitis	6	0	1

MISCELLANEOUS.

Sarcoma of nose	1	0	0

DISEASES OF OUT-PATIENTS.

DISEASES OF THE EXTERNAL EAR.

I. Auricle.

a. *Congestions.*

	R.	B.	L.
Frozen ear	1	0	1

b. *Inflammations.*

Abscess	1	0	0
Abscess of Lobe	2	0	0
Abscess of tragus	2	0	0
Dermatitis	2	0	2
Eczema	6	20	12
Herpes zoster	1	1	0
Intertrigo	3	1	0
Hæmatoma idiopathic	1	0	1
Hæmatoma traumatic	1	0	4

c. *Deformities.*

Microtia	1	0	2
Congenital fistula of auricle	0	1	1

d. *Neoplasms.*

Cyst of auricle	0	0	1
Cyst of lobe	4	0	0
Epithelioma	0	0	2
Œdema	1	0	0

e. *Trauma.*

Auricle	1	0	1
Lobe	3	0	5

2. Meatus.

Cerumen	233	684	318
Trauma	1	0	1
Abscess	7	0	7
Eczema	20	28	9
Accute diffuse inflammation	10	20	51
Chronic diffuse inflammation	2	13	0
Acute diffuse inflammation, with mastoiditis	0	0	1
Acute circumscribed inflammation	51	5	53
Foreign body (animate)	3	0	5
Foreign body (inanimate)	18	1	2

	R.	B.	L.
Atresia acquired	2	0	3
Caries	0	0	1
Exostosis	1	0	2

II. DISEASES OF THE DRUM MEMBRANE.

Trauma direct	9	1	11
Trauma indirect	1	1	0
Myringitis	1	0	0

III. DISEASES OF THE MIDDLE EAR.

Acute Secretory Catarrhal Inflammation.

Mucous	59	121	53
With adenoids	1	35	1
Serous	23	34	39
Serous, with adenoids	0	3	0

Chronic Secretory Catarrhal Inflammation.

With adenoids	20	70	0
Mucous	142	537	187
Serous	0	6	0
Serous with adenoids	0	3	0
With labyrinthine disease	0	1	0

Adhesive Catarrhal Inflammation.

Secretory	25	238	26
Secretory, with labyrinthine disease	0	11	1
Insidious	9	32	8
Insidious, with labyrinthine disease	1	2	1

Acute Inflammation.

Simple	229	73	164
With bulla	2	2	1
With adenoids	3	3	1
With facial paralysis	1	0	1
With post-aural abscess	0	0	1
With sub-periosteal abscess	1	0	0

Acute Suppurative Inflammation.

Simple	248	68	136
With caries of mastoid	2	0	1
With mastoiditis	5	1	1
With post-aural abscess	0	0	1
With granulations in the tympanum	2	0	3
With mastoiditis and abscess of neck	0	0	2
With adenoids	0	3	2

Chronic Suppurative Inflammation.

	R.	B.	L.
Simple	222	106	73
With caries of mastoid	3	0	1
With caries of the ossicles	4	0	3
With polypus in the tympanum	37	2	29
With granulations in tympanum	41	7	37
With granulations and pylypus in the tympanum	1	0	1
With granulations in the tympanum and facial paralysis	0	0	1
With adenoids	1	1	0
With polypus in the meatus	0	0	1
With post-arual abscess	2	0	0
With caries of the tympanum	0	1	0
With sub-periosteal abscess	2	0	0
With polypus in the tympanum and mastoiditis	1	0	1
Wfth granulations in tympanum and caries of ossicles	2	0	1
Effect of suppurative inflammation	53	73	145
Effect of suppurative inflammation with adenoids	2	4	1

4. Eustachian Tube.

Catarrhal inflammation of the eustachian tube	1	0	1

5. Neuroses of Middle Ear.

Otalgia from teeth	47	15	40
Otalgia from nose	2	0	0
Otalgia from pharynx	0	2	3

DISEASES OF THE LABYRINTH.

Anæmia	0	2	0
Concussion	1	0	1
Inflammation	3	11	3
Hemorrhage	0	0	1
Syphilis	0	0	1
Periostitis	0	1	0
Hyperæmia	0	0	1
Trauma	0	0	2

Miscellaneous.

Adenoids	0	32	0
Hypertrophic rhinitis	0	35	0
Deaf mutism	0	21	0
Panotitis	1	1	1
Auditory nerve	1	6	0
Contractions of tensor tympanum	0	3	1
Eloped	0	25	0
No diagnosis	0	28	0
No ear disease	0	107	0
Unfit patients	0	74	0

AURAL OPERATIONS.

PART. DISEASE. OPERATION.	R.	B.	L.
1. Auricle.			
Abscess incised	3	0	7
Cyst removed	2	0	1
Hæmatoma incised	1	0	5
Abscess of tragus incised	2	0	0
Cyst of lobe removed	3	0	1
Congenital fistula of auricle excised	1	0	0
Congenital fistula of auricle with inflamed cyst excised	0	0	1
2. Meatus.			
Keratosis removed	7	0	3
Circumscribed abscess incised	29	1	19
Abscess incised	6	0	2
Polypus removed	3	0	7
Foreign body removed	1	0	0
Foreign body removed by displacement of auricle	2	0	1
3. Tympanum.			
Drum membrane-bulla incised	1	0	1
Drum membrane-paracentesis	228	21	219
Carious malleus removed	3	0	6
Carious ossicles removed	2	1	2
Carious incus removed	1	0	0
Carious malleus and incus removed	0	0	2
Granulations in tympanum removed	3	0	3
Necrosis of tympanum removed	5	1	6
Polypus removed	49	2	57
Stapedius muscle tenotomy	0	0	1
4. Nose and Pharynx.			
Nose, spur removed	2	0	2
Nose, polypus removed	2	0	4
Naso pharynx, adenoids removed	0	132	0
Naso pharynx, tonsils removed	2	0	1
5.			
Abscess, post-aural, incised	2	0	3
Abscess, sub-periosteal, incised	1	0	0
Abscess, neck, incised	4	0	3
Abscess, extra dural, incised	0	0	1
Mastoid operations (see special report)	57	0	62
Miscellaneous.			
Caries of temporal bone, removed	1	0	0
Various operations	5	0	6

STATISTICS, OCT. 1, 1896, TO OCT. 1, 1897.

EAR PATIENTS.

Males.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sep.	Total
Births to 3 years.....	8	11	8	10	11	23	26	25	21	13	15	11	182
3 yrs. to 15 "	34	43	30	41	46	57	65	38	38	54	55	42	543
15 " " 25 "	43	48	34	45	42	67	50	43	40	74	62	46	594
25 " " 35 "	42	33	45	48	51	85	58	63	53	78	70	51	677
35 " " 45 "	28	28	28	23	21	45	40	39	36	41	39	35	403
45 " " 55 "	21	21	13	16	15	32	21	19	26	30	39	28	281
55 " " 65 "	11	13	17	17	20	22	21	19	13	20	17	10	200
65 " " 75 "	8	3	3	12	3	8	11	4	6	6	9	9	82
75 " " 85 "	1	1	0	0	2	1	0	2	2	1	3	4	17
85 " " 95 "	0	0	0	0	0	0	0	0	0	0	1	0	1
95 " " 100 "	0	0	0	0	0	0	0	1	0	0	0	0	1
													2,981

Females.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sep.	Total
Births to 3 years.....	6	10	14	13	17	26	28	13	10	14	12	10	173
3 yrs. to 15 "	38	43	43	35	66	53	72	45	35	38	55	34	557
15 " " 25 "	63	42	33	32	41	62	38	47	49	49	47	45	548
25 " " 35 "	29	35	28	36	39	47	40	34	39	58	56	28	469
35 " " 45 "	19	29	13	14	26	27	26	18	24	34	25	29	284
45 " " 55 "	14	14	11	10	12	19	19	21	19	18	20	25	202
55 " " 65 "	5	9	3	7	7	11	8	15	19	10	11	18	123
65 " " 75 "	4	5	0	1	0	2	5	4	1	2	6	3	33
75 " " 85 "	1	1	1	1	0	0	1	0	0	1	1	0	7
85 " " 95 "	0	0	0	0	0	0	0	0	0	0	0	0	0
95 " " 100 "	0	0	0	0	0	0	0	0	0	0	0	0	0
													2,396

Residences.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sep.	Total
Residents of Boston....	175	202	162	186	209	279	284	241	217	278	270	192	2,695
Massachusetts.....	189	179	159	170	207	296	234	207	204	254	265	229	2,593
Maine.....	4	1	0	4	1	5	3	0	2	3	3	2	28
New Hampshire....	5	4	3	0	1	7	2	1	3	1	3	4	34
Vermont.....	2	2	0	0	0	0	3	0	3	0	0	0	10
Rhode Island.....	0	0	0	0	1	0	0	0	0	1	2	0	4
Connecticut.....	0	0	0	1	0	0	0	0	0	2	0	1	4
Other States.....	0	1	0	0	0	0	0	1	2	1	0	0	5
British Provinces.....	0	0	0	0	0	0	3	0	0	1	0	0	4

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sep.	Total
New Patients.....	375	389	324	361	419	587	529	450	431	541	543	428	5,377
Old Patients.....	1,391	1,491	1,421	1,503	1,645	2,029	2,039	2,137	1,767	1,650	1,448	1,381	19,902
Totals.....	1,766	1,880	1,745	1,864	2,064	2,616	2,568	2,587	2,198	2,191	1,991	1,809	25,279

ANALYSIS OF MASTOID OPERATIONS.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöctic or Sclerosed, Pus, Caries, etc., Portion Removed).	Cultures.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O. P. D.	Result.	Remarks.
1	M.	7	L.	9 weeks.	6 weeks.	Diplöctic, pus, gran., caries.		None.	22 days.	67 days.	Well.	Scarlet fever nine weeks ago. Dura exposed over an area of ¾ by ½ inches.
2	F.	2	R.	2 years.	Several days.	Diplöctic, softened bone.		None.	27 days.	3 days.	Well.	Spontaneous opening mastoid. Enlarged cervical glands.
3	F.	2	L.	2 years.	Several days.	Diplöctic, softened bone.		None.	13 days.	10 days.	Well.	Spontaneous opening mastoid. Enlarged cervical glands.
4	M.	7	R.	3½ months.	2 months.	Diplöctic, pus, gran., caries.		None.	73 days.	10 days.	Well.	Scarlet fever three months ago. Spontaneous opening through mastoid. Malleus removed.
5	F.	1	L.	8 months.	8 months.	Diplöctic, softened bone.		None.	43 days.	14 days.	Well.	Secondary operation. First operation six months previous.
6	M.	32	L.	3 months.	3 months.	Pneumatic, pus, gran., softened bone.	Staphylococcus.	None.	40 days.	20 days.	Well.	Secondary operation. Deep cells in occipital bone. Ear trouble came on after sea bathing.

7	M.	11 mos.	L.	8 months.	8 months.	Diplöctic. Nine sequestra removed, one being a part of the tympanic ring.		None.	52 days.	30 days.	Well.	Facial paralysis six months before operation; still complete.
8	F.	17	R.	9 years.	7 years.	Sclerosed, pus grans. Tympano mastoid exenteration.	Bacillus Pyocyaneus.	None.	Under observation.			Secondary operation; first operation nine years ago; facial paralysis following operation; lasted about nine months.
9	F.	21	L.	10 months.	7 months.	Pneumatic, pus gran., caries.	Streptococcus.	Pressure symptoms. Delirious.	85 days.	40 days.	Well.	Extra dural abscess, chill, tempt. $107\frac{2}{5}^{\circ}$ before operation. Had two subsequent operations in which an area of bone 1½ inches in diameter was removed above and a little posterior to mastoid, in order to evacuate two extra dural abscesses.
10	M.	40	L.	8 months.	5 days.	Pneumatic, sclerosed in parts, pus, gran., caries. Tegmen mastoideæ removed ¼ inch diameter. Gran., on dura.	Staphylococous.	None.	1 month.	4 months.	Well.	Another operation two months later, in which an area of bone about 1½ inches in diameter, was removed from above the mastoid and a large extra dural abscess evacuated, after which convalescence was uninterrupted.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöctic or Sclerosed, Pus, Caries, etc., Portion Removed).	Cultures.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O. P. D.	Result.	Remarks.
11	F.	15	L.	2 days.	1 day.	Pneumatic, pus, gran., softened bone.	Staphylococcus. Streptococcus.	None.	24 days.	24 days.	Well.	Dura exposed ¼ of an inch in diameter. Secondary operation; first operation six months previous.
12	F.	5 mos.	R.		2 days.	Diplöctic, pus, gran., softened bone.			See	No. 23.		Secondary operation 6 weeks later.
13	M.	10	R.	3 weeks.	12 days.	Diplöctic, pus, gran., caries.	Bacillus Pyocyaneus.	Confusion.	14 days.	4 months.	Well.	Abscess in neck developed two weeks later. Incised. Mental condition strange in consequence of weakness. Four months later mental condition normal.
14	M.	4	R.	1 year.	Several months.	Diplöctic, whole mastoid one sequestrum.		None.	22 days.		Improved.	Child tubercular. Entire mastoid removed, exposing dura posteriorly and superiorly. Transferred to Children's Hospital.

15	F.	42	L.	3 weeks.	3 weeks.	Pneumatic, pus, gran., caries.		Nausea.	26 days.	14 days.	Well.	Dura exposed over an area of ¾ x ½ inches. It was covered with granulations. Chill. Temperature 104°.
16	F.	23	R.	8 months.	8 months.	Sclerosed. Tympano mastoid exenteration.		Vertigo.	31 days.	Under Observation.	Well.	Secondary operation. First operation five months previous. Facial paralysis of about nine months' duration.
17	F.	45	L.	6 weeks.	2 weeks.	Pneumatic, pus, gran., caries.		None.	29 days.	11 days.	Well.	Convalescence uneventful.
18	F.	18	L.	years.	years.	Sclerosed, pus, gran., and cholesteatomatous masses. Tympano mastoid exenteration.		Convulsions.	2 months.	Under Observation.	Well.	Patient had three previous operations. Facial paralysis followed operation; nine months later it had nearly disappeared.
19	F.	53	L.	3 months.	6 weeks.	Pneumatic, pus, gran., caries.	Streptococcus.	Convulsions.	45 days.	45 days.	Well.	Large sub-periosteal abscess extending from mastoid above the ear and about two inches anterior to it. Counter-opening just below anterior portion of Zygoma.
20	M.	34	R.	9 weeks.	3 weeks.	Pneumatic, pus, gran., caries.	Streptococcus. Staphylococcus.				Dead.	Lateral sinus opened. Thrombosis of sinus and jugular vein, septicæmia.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Cultures.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
21	F.	9 mos.	L.	6 weeks.	4 weeks.	Diplöetic, pus, gran., caries. Entire cancellated structure of mastoid removed.		None.	11 days.	37 days.	Well.	Convalescence uninterrupted.
22	M.	4	R.	3 weeks.	6 days.	Pneumatic, pus, gran., caries.	Streptococcus. Staphylococcus.	None.	16 days.	33 days.	Well.	Perforation through cortex of mastoid and sub periosteal abscess.
23	F.	7 mos.	R.	3 months.	6 weeks.	Small sequestra, granulations on dura.		None.	15 days.	92 days.	Well.	Dura exposed posteriorly and superiorly. See No. 12.
24	M.	6	R.	5 weeks.	10 days.	Pneumatic, pus, gran., caries.		None.	13 days.	92 days.	See No. 71.	Fistula through cortex of mastoid. Transferred to B. C. H.
25	F.	28	L.	3 weeks.	2 weeks.	Pneumatic, pus, gran., caries.	Staphylococcus.	None.	14 days.	33 days.	Well.	Convalescence uninterrupted.
26	M.	4	R.	2 years.	1 year.	Diplöetic, tympano mastoid exenteration. All cancellated structure of mastoid a sequestrum.		None.	4 months.	2 months.	Well.	Complete facial paralysis for several months previous to operation.

27	M.	31	L.	30 years.	2 weeks.	Sclerosed, caries on inner wall of anterior portion of antrum.		Vertigo. Nystagmus.	133 days.	90 days.	Nearly well.	Antrum filled with cholesteatomatous material. Tympano mastoid exenteration with Stacke's rectangular flap
28	M.	20	R.	15 years.	2 years.	Diplöetic, pus, gran., caries.		None.	See No. 63.			Dura exposed anteriorly and superiorly. Operation was a tympano mastoid exenteration, excepting that the lower portion of the mastoid was not opened. A sequestrum was removed containing the cochlea vestibule and two of the semicircular canals.
29	M.	40	R.	5 weeks.	2 weeks.	Pneumatic, pus, gran., caries.	Streptococcus.	None.	23 days.	24 days.	Well.	Convalescence uninterrupted.
30	M.	56	R.	6 weeks.	3 weeks.	Diplöetic, pus, gran., caries.	Staphylococcus. Diplococcus. Pneumoniæ.	None.	24 days.	8 days.	Well.	Convalescence uninterrupted.
31	M.	48	L.	16 days.	2 weeks.	Pneumatic, softened bone.	Staphylococcus.	None.	20 days.	26 days.	Well.	Convalescence uninterrupted.
32	F.	5	R.	4 years.	15 months.	Diplöetic, pus, gran., caries.	Staphylococcus.		53 days.		Well.	Patient had a fistula through cortex.
33	F.	15	R.	1 year.	10 days.	Sclerosed, softened bone.		Vertigo.	25 days.	65 days.	Well.	Middle ear still under treatment.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Du ration of Mastoid Disturbance	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Cultures.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
34	M.	24	L.	6 weeks.	5 days.	Pneumatic, pus, gran., caries.	Streptococcus. Staphylococcus.	None.	4 days.	23 days.		Convalescence uninterrupted.
35	M.	30	R.	1 year.	1 month.	Sclerosed, softened bone.			10 days.	84 days.	Well.	Mastoid very narrow. Sinus opened. Middle ear required treatment five or six weeks after mastoid was healed.
36	M.	9 mos.	L.	10 days.	2 days.	Diplöetic, pus, gran., caries.	Streptococcus Diplococus. Pneumoniæ.	None.	17 days.	23 days.	Well.	Abscess in neck.
37	M.	46	L.	2 months.	10 days.	Pneumatic, pus, gran., caries.	Streptococcus. Staphylococcus.	None.	15 days.	57 days.	Well.	Lateral sinus exposed. Extra dural abscess.
38	F.	9	L.	1 year.	10 months.	Pneumatic, pus, gran., caries.	Staphylococcus. Diplococus. Pneumoniæ.	None.	33 days.	103 days.	Well.	Secondary operation, first operation six months previous. Mastoid and antrum filled with cholesteatomatous masses.
39	M.	26	R.	1 month.	3 weeks.	Diplöetic, softened bone.	No growth.		33 days.	34 days.	Well.	Patient had typhoid fever with symptons simulating sinus thrombosis. Lateral sinus was aspirated, but found healthy.

40	F.	4	L.	6 weeks.	4 weeks.	Diplöetic, pus, gran., caries.	Staphylococcus.	None.	19 days.	109 days.	Well.	Convalescence slow but uneventful.
41	F.	26	L.	4 weeks.	3 weeks.	Pneumatic, pus, gran., caries.	Diplococcus Pneumoniæ.	None.	16 days.	60 days.	Well.	Convalescence uninterrupted.
42	F.	1	L.	2 weeks.	6 days.	Pneumatic, pus, gran., caries.	Staphylococcus.	None.	1 day.		See No. 103.	Carious ossicles removed. Patient removed from hospital against advice and came to O. P. D. very irregularly.
43	M.	60	R.	8 weeks.	4 weeks.	Pneumatic, pus, gran., caries.	Bacillus. Staphylococcus.	None.	21 days.	62 days.	Well.	All cancellated structure of mastoid gone.
44	F.	18	L.	2 mos.	6 days.	Pneumatic, pus, gran., caries.	Staphylococcus.	None.	15 days.	25 days.	Well.	Lateral sinus opened. Convalescence rapid.
45	M.	18 mos.	R.	4 mos.	2 mos.	Diplöetic, pus, gran., ossicles removed.	Staphylococcus.	High temperature.			Dead.	All the mastoid and a large portion of petrous bone caries, removed. Facial paralysis double. Patient had continuous hyperpyrexia, meningeal symptoms. Broncho pneumonia. Temp. 109. No autopsy.
46	M.	18 mos.	L.	4 mos.	2 mos.	Diplöetic, caries, ossicles and large part of temporal bone removed.	Staphylococcus.					
47	M.	26	L.	8 days.	2 days.	Diplöetic, pus, gran.	Staphylococcus.	None.	25 days.	30 days.	Well.	Convalescence uninterrupted.
48	M.	1	L.	6 mos.	2 weeks.	Pneumatic, pus, gran.	Staphyl. ococcus.		18 days.	24 days.	Well.	Perforation through tip of mastoid with abscess in neck.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
49	F.	40	L.	4 months.	1 month.	Sclerosed, gran., softened bone.	Bacillus. Staphylococci.	None.	19 days.	24 days.	Well.	Convalescence uninterrupted.
50	F.	9	R.	4 weeks.	2 days.	Pneumatic, pus, gran.	Staphylococcus. Diplococcus Pneumoniæ.	None.	12 days.	31 days.	Well.	Convalescence uninterrupted.
51	M.	32	L.	5 weeks.	4 weeks.	Pneumatic, pus, gran., caries.	Staphylococcus.		17 days.	23 days.	Well.	Chill. Temperature 105° twelve hours before operation. Lateral sinus exposed for about an inch and found bathed in pus. Convalescence uninterrupted.
52	M.	35	R.	4 weeks.	1 week.	Pneumatic, pus, gran., caries.	Diplococcus Pneumoniæ.	None.	21 days.	18 days.	Well.	Convalescence uninterrupted.
53	F.	24	R.	4 months.	3½ months.	Pneumatic, pus, gran., caries.	Diploccocus Pneumoniæ. Bacillus fœtidus.	None.	37 days.	15 days.	Well.	Secondary operation; first operation about three months previous. Middle ear and mastoid filled with carious bone and cholesteatomatous material. Convalescence rapid.
54	M.	30	L.	18 days.	7 days.	Pneumatic, pus, gran.	Streptococcus. Staphylococcus. Diploccocus Pneumoniæ.	None.	34 days.	11 days.	Well.	Convalescence uninterrupted.

55	F.	20	L.	2 weeks.	8 days.	Pneumatic, pus, gran., caries.	Staphylococcus. Diplococcus Pneumoniæ.	None.	26 days.	27 days.	Well.	Tip of mastoid a sequestrum.
56	F.	30	R.	4 weeks.	4 weeks.	Pneumatic, pus, gran., caries.	Bacillus Pyocyaneus.	None.	18 days.	18 days.	Well.	Lateral sinus opened; perforation through tip.
57	M.	14	L.	5 weeks.	4 weeks.	Pneumatic, pus, gran., caries.	Streptococcus Diplococcus Pneumoniæ.	None.	20 days.	25 days.	Well.	Large sub-periosteal abscess extending over and above mastoid. Convalescence rapid.
58	F.	20	R.	6 weeks.	5 weeks.	Pneumatic,caries, gran.	No growth.	None.	18 days.	23 days.	Well.	Convalescence uninterrupted.
59	F.	19	L.	years.	years.	Diplöetic, pus, gran., caries.	Diplococcus Pneumoniæ.	None.	2 days.	29 days.	Well.	This is the fifth time patient has been operated on for mastoid disease. Cholesteatomatous masses in antrum.
60	F.	53	L.	2 mos.	6 weeks.	Pneumatic, pus, gran.	Staphylococcus.	None.	29 days.	10 days.	Improved. Died three months later.	Patient an old specific. Mental condition not good. Came but once or twice to O. P. D. When last seen mastoid wound about healed. Died at B. C. H., with abscess of temporal lobe, but not communicating with mastoid.
61	M.	48	L.	7 mos.	6 weeks.	Sclerosed pus, gran., caries.	Bacillus Pyocyaneus.	None.	44 days.	Under observation.		Dura exposed. Middle ear discharging six months after operation.
62	F.	40	L.	18 days.	18 days.	Pneumatic, pus, gran.	Staphylococcus.	None.	26 days.	24 days.	Well.	Convalescence uninterrupted.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
63	M.	20	R.	15 years.	2 years.	Diplöetic, gran., softened bone.	Staphylococcus.	None.	54 days.	See No. 28.	Well.	Only the tip operated upon. Abscess in neck, but no connection could be found between it and mastoid.
64	F.	29	L.	6 weeks.	3 months.	Diplöetic, gran., cholesteatomatous masses.	Staphylococcus.	None.		See No. 84.		Secondary operation; first operation one year previous. Old mastoid wound and antrum filled with cholesteatomatous materials.
65	M.	22	R.	8 weeks.	2 weeks.	Pneumatic, pus, gran., caries.	Diplococcus Pneumoniæ.	None.	8 days.	29 days.	Well.	Convalescence uninterrupted.
66	F.	4 m.	R.	6 weeks.	1 week.	Pneumatic, softened bone.	Diplococcus Pneumoniæ.	Meningeal symptoms.			Dead.	Child in very poor general condition. Malnutrition, continuous hyperpyrexia. Gradual emaciation. Marked leucocytosis. Septicæmia.
67	F.	6	L.	2 months.	2 months.	Diplöetic. Mastoid healthy.		None.	23 days.	30 days.	Well.	Child had large postaural abscess which was thought to be due to mastoid disease.
68	F.	28	L.	2 weeks.	1 week.	Pneumatic, pus, gran., caries.	Staphylococcus.	None.	52 days.	23 days.	Well.	Convalescence uninterrupted.

69	F.	26	R.	4 weeks.	3 weeks.	Pneumatic, pus, gran., caries.	Diplococcus Pneumoniæ.	None.	13 days.	18 days.	Well.	Convalescence uninterrupted.
70	F.	8	R.	3 years.	2 years.	Pneumatic, pus, gran.	Diplococcus Pneumoniæ.	None.	21 days.	39 days.	Well.	Secondary operation; first operation one year ago. Convalescence uninterrupted.
71	M.	6	R.	4 months.	4 months.	Pneumatic, pus, gran.	Bacillus Pyocyaneus.	None.	37 days.	23 days.	Well.	Secondary operation; first operation three months previous. See No. 24. Convalescence uninterrupted.
72	F.	32	R.	10 days.	7 days.	Pneumatic, pus, gran., caries.	Streptococcus. Staphylococcus.	None.	13 days.	71 days.	Well.	Convalescence uninterrupted.
73	F.	5	L.		1 week.	Diplöetic, softened bone.	Diplococcus Pneumoniæ.	None.	18 days.	Under observation.	Improved.	Dura exposed. Convalescence has been very slow, has had frequent attacks of emesis; brain abscess was suspected. Patient now nearly well.
74	F.	49	R.	5 weeks.	2 weeks.	Diplöetic, gran., softened bone.	Staphylococcus.	None.	25 days.	49 days.	Well.	Convalescence uninterrupted.
75	F.	8	R.	years	2 weeks.	Pneumatic, pus, gran., caries.		None.	29 days.		See No. 117.	Secondary operation five months later.
76	F.	28	R.	10 weeks.	4 weeks.	Pneumatic, pus, gran., caries.	Staphylococcus.	None.	13 days.	59 days.	Well.	Perforation through cortex ½ inch in diameter. Convalescence uninterrupted.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
77	F.	18 mos.	R.	4 months.	2 months.	Diplöetic, pus, gran., caries. All cancellated structure removed.	Staphylococcus.	None.	142 days.	30 days.	Well.	Patient of tubercular parentage. Convalescence very slow.
78	F.	21	R.	7 weeks.	3 weeks.	Pneumatic, pus, gran., caries.	Diplococcus. Staphylococcus.	None.	34 days.	Under observation.	Improved.	Patient diabetic. Mastoid wound not yet healed.
79	M.	8	L.	2 months.	1 month.	Pneumatic, pus, gran., caries.	Diplococcus. Staphylococcus.	None.	8 days.		Well.	Mastoid allowed to fill with aseptic blood clot; primary healing.
80	F.	16 mos.	L.	2 weeks.	2 weeks.	Diplöetic, pus, gran., caries.	Diplococcus Pneumoniæ.	None.	19 days.		See remarks.	Dura exposed. Mastoid; wound nearly healed when patient came down with measles and was transferred to B. C. H., where she died two weeks later.
81	F.	20	L.	15 weeks.	None.	Diplöetic. Mastoid healthy.	Staphylococcus.		13 days.	17 days.	Well.	Exploratory operation. Large swelling extending from mastoid to median line posteriorly; which was filled with pus and pyogenic membrane; and not connected with ear.

82	F.	21	L.	3 weeks.	3 weeks.	Pneumatic, pus, gran., caries.	Diplococcus Streptococcus.	None.	23 days.			See No. 95.
83	F.	24	L.	10 weeks.	10 weeks.	Pneumatic, pus, gran., caries.	Staphylococcus. Dipolococcus.	None.	10 days.		Well.	Mastoid allowed to fill with aseptic blood clot, primary healing.
84	F.	29	L.	See	No. 64	Diplöetic, pus, gran., caries.	Bacillus Pyocyaneus.		41 days.	30 days.	Well.	Chill. Temperature 105.° Hyperpyrexia one week after operation. Convalescence uninterrupted.
85	F.	17	L.	8 weeks.	1 week.	Pneumatic, pus, gran., caries.	Diplococcus Pneumoniæ.	None.	7 days.		Well.	Tip carious. Mastoid allowed to fill with aseptic blood clot; primary healing.
86	F.	25	R.	Since	childh'd	Diplöetic, pus, gran., caries.	Diplococcus.	None.	10 days.	Under observation.	Improved.	Patient has had three previous mastoid operations. All the cancellated structure of mastoid removed. Large amount of dura exposed posteriorly and superiorly.
87	F.	46	L.	8 weeks.	3 weeks.	Pneumatic, pus, gran., caries.	Staphylococcus.	None.	10 days.		Well.	Tip carious. Mastoid allowed to fill with aseptic blood clot; primary healing.
88	M.	18 mos.	R.	4 weeks.	1 week.	Diplöetic, pus, gran., caries. All cancellated structure of mastoid was removed.	Staphylococcus.	None.	8 days.	Under observation.	Improved.	Dura exposed. Patient was removed from hospital against advice.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
89	M.	8	L.	years.	years.	Diplöetic, pus, gran., cholesteatomatous masses.	Staphylococcus.	None.	63 days.	See No. 111.		As soon as patient was discharged from hospital the ear was neglected and mastoid wound was reinfected. Secondary operation.
90	F.	34	R.	10 days.	6 days.	Diplöetic, gran., pus.	Diplococcus.	None.	38 days.	8 days.	Well.	Convalescence uninterrupted.
91	M.	50	R.	2 months.	6 weeks.	Diplöetic, pus, gran., caries.	Diplococcus.	None.	2 months.		Well.	Perforation through tip with extension of pus to deep structures of neck. Two subsequent operations on neck. Sinus exposed and bulb of jugular opened.
92	M.	38	R.	3½ weeks.	2 weeks.	Pneumatic, pus, gran., caries.	Staphylococcus. Streptococcus.	None.	16 days.	23 days.	Well.	Tip a sequestrum. Convalescence uninterrupted.
93	M.	20	R.	3 weeks.	1 week.	Pneumatic, pus, gran., caries. Tegmen mastoideæ removed.	Staphylococcus. Streptococcus. Diplococcus.	Stupor.	30 days.	20 days.	Well.	Small brain abscess evacuated. Large area of dura exposed. Meningeal symptoms before operation. Marked retinitis. Small hernia of brain. Convalescence rapid.

94	M.	28	R.	4 weeks.	2 weeks.	Pneumatic, pus, gran., caries.	Diplococcus.		37 days.		Well.	Sinus and dura exposed. Convalescence rapid.
95	F.	21	L.	7 weeks.	7 weeks.	Pneumatic, gran., softened bone.	Streptococcus.	Delirious.	10 days.		Dead.	Sinus opened; dura exposed superiorly and posteriorly. Septic cerebro spinal meningitis. Broncho pneumonia. No autopsy.
96	F.	13 mos.	L.	3 weeks.	1 week.	Diplöetic, gran., caries.	Diplococcus.		21 days.		Well.	Convalescence uninterruped.
97	F.	4	R.	3 weeks.	10 days.	Diplöetic, pus, gran., caries.	Streptococcus.	None.	56 days.		Well.	Extra dural abscess. Convalescence uneventful.
98	M.	50	L.	2 weeks.	2 weeks.	Diplöetic, pus, gran., caries.	Staphylococcus.	None.	43 days.	39 days.	Well.	Perforation through tip of mastoid. Abscess in neck. Secondary operation on neck ten days later.
99	M.	5	R.	5 years.	17 days.	Diplöetic, pus, gran., caries. Posterior and superior wall of mastoid removed.	Staphylococcus.	Stupor.	Still in hospital.		Nearly well.	Large area of dura exposed superiorly and posteriorly. Dura necrotic posteriorly. Abscess in cerebellum. Temp. from 105° to 108°. Very septic. Patient nearly well.
100	M.	44	L.	3½ months.	2½ months.	Diplöetic, pus, gran., caries.	Streptococcus.	None.	12 days.		Well.	Wound allowed to fill with aseptic blood clot; primary healing.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
101	F.	6	L.	2 months.	1 month.	Diplöetic. pus, gran., caries.	Diplococcus Staphylococcus.	None.	68 days.		Well.	Dura exposed superiorly over an area ½ inch in diameter. Three months later sequestrum was removed from tympanum composed of about half of the tympanic ring.
102	M.	40	R.	20 days.	14 days.	Pneumatic, pus, gran., caries.	Streptococcus.	None.	20 days.	10 days.	Well.	Bulb of jugular opened. Convalescence uneventful.
103	F.	16 mos.	L.	4½ months.	4 months.	Diplöetic, pus, gran., caries.		None.	29 days.	47 days.	Well.	Secondary operation; first operation four months previous. See No. 42. Sinus opened and a considerable area of dura exposed.
104	F.	5 mos.	R.	2 months.	1 week.	Diplöetic, pus, gran., caries.	Diplococcus Staphylococcus.	None.	39 days.	Under	observation.	Small area of dura exposed. General condition poor. Wound nearly healed.
105	M.	45	L.	6 weeks.	2 weeks.	Diplöetic, pus, gran., caries.	Staphylococcus.	Stupor.	32 days.		Well.	Extra dural abscess. Patient septic before operation. Convalescence uneventful.

106	M.	9	R.	2 years.	1¼ years.	Diplöetic, pus, gran., caries.	Staphyl-ococcus. Bacillus Fœtidus.	None.	Still in	hospital.	Nearly well.	Secondary operation; first operation one year previous. Tympano mastoid exenteration.
107	M.	23	R.	11 years.	11 years.	Sclerosed; lower part of mastoid. Diplöetic, pus, grans.	Staphyl ococcus.	None.	58 days.	20 days.	Well.	Patient had three previous mastoid operations. Convalescence slow but uneventful.
108	F.	37	L.	3½ months.	2½ months.	Diplöetic, pus, gran., caries.	Staphyl-ococcus.	None.	17 days.	28 days.	Well.	Extra dural abscess. Convalescence uninterrupted.
109	M.	30	R.	2 months.	6 weeks.	Pneumatic, pus, gran., caries.	Streptococcus.	None.	11 days.	22 days.	Well.	Sinus exposed; dura laid bare superiorly over an area ½ inch in diameter. Convalescence uninterrupted.
110	F.	6	L.	3 months.	1 week.	Diplöetic, pus, gran., softened bone.	Streptococcus.	None.	29 days.	10 days.	Well.	Convalescence uninterrupted.
111	M.	8	L.	years.	years.	Diplöetic.	Staphyl-ococcus.	None.	56 days.		Well.	Secondary operation; first operation about three months previous. See No. 89.
112	F.	39	L.	3 weeks.	10 days.	Pneumatic, gran.	Bacillus. Pyocyaneus.	None.	22 days.	90 days.	Well.	Convalescence uninterrupted.
113	F.	45	L.	1 week.	1 week.	Pneumatic, softened bone.	Staphyl. ococcus.	None.	19 days.	6 days.	Well.	Convalescence uninterrupted.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
114	M.	10 mos.	R.	4 months.	2 weeks.	Diplöetic, pus, gran., caries.	Staphylococcus.	None.	Still in	hospital.	Improved.	Dura exposed anteriorly and posteriorly. General condition very poor. Patient convalescent.
115	F.	23	R.	17 years.	3 days.	Diplöetic, softened bone.	No growth.	None.	Still in	hospital.	Nearly well.	Wound nearly healed. No discharge from middle ear.
116	F.	32	R.	2 weeks.	5 days.	Pneumatic, pus, gran., caries.	Diplococcus Pneumoniæ.	Cephalalgia emesis.	Still in	hospital.	Nearly well.	Wound nearly healed. Sinus exposed.
117	F.	8	R.	2 years.	5 months.	Diplöetic, pus, gran., caries.	Staphylococcus.	None.	Still in	hospital.	Improved.	Secondary operation; first operation four months previous. See No. 75.
118	F.	7	R.	6 months.	2 weeks.	Diplöetic, pus, gran., caries.	Streptococcus.	None.	Still in	hospital.	Nearly well.	Mastoid wound about healed. Slight discharge from middle ear.
119	F.	50	L.	20 years.	1 year.	Sclerosed, pus, gran.	Streptococcus.	Stupor.	7 days.		Dead.	Carcinoma of temporal bone. Tympanum and mastoid filled with new growth. Three previous operations on mastoid before entering hospital. Patient apparently moribund when operated on with temperature of 105°, intermittant pulse; unconscious.

DONATIONS IN 1897.

CASH FOR CURRENT EXPENSES.

Wm. Amory	$10 00
Mrs. James F. Curtis	15 00
Mrs. J. N. Fiske	500 00
John L. Gardner	100 00
Mr. and Mrs. H. S. Grew	100 00
Frank W. Hunnewell	200 00
Mrs. W. V. Killen	50 00
Mrs. Charles A. Morss, Jr.	5 00
Mrs. J. B. S. Jackson	10 00
Edward D. Peters	20 00
Ellen R. Pickman	25 00
F. H. Peabody	25 00
Mr. and Mrs. H. Pickering	100 00
Mrs. G. H. Shaw	25 00
Anonymous	5 00

ARTICLES FOR HOSPITAL USE.

One dozen gingham aprons, from Arlington Street Church, through Mrs. A. Jackson.

One hundred pieces underclothing and linen, Jamaica Plain branch, Needlework Guild, through Mrs. R. M. Morse.

Thirty pieces underclothing, five gingham aprons, from Trinity Church Employment Society.

Fifty-five pieces underclothing, Boston Sewing Circle, through Miss Loring.

Flowers, from Boston Flower and Fruit Mission.

Fourteen dolls for children, from Mrs. C. P. Curtis.

Twenty pieces underclothing for women, one pair shoes, Anonymous.

Flowers, from Bowdoin Square Baptist Church Flower Mission.

Fruit and berries, from a patient.

Six bottles cologne, from Mr. Ruddy.

Four boxes building blocks for children, from Mrs. C. P. Curtis.

Old linen and magazines, from Miss Richardson.

Old linen, from Mrs. Eustis.

One dozen shirts, one pair trousers, two undershirts, from Mr. Germaine.

One dozen dolls for Christmas, for children, from Mrs. C. P. Curtis.

Clothing and linen from Jamaica Plain Branch, Needlework Guild, through Mrs. Robert Morse.

Toys for Christmas, for children, from Mrs. C. P. Curtis.

Money for toys for Christmas tree, from Dr. Plummer.

Christmas tree, from Mr. H. W. Morse.

Toys for Christmas, for children, from Miss Bradley.

Five dollars for Christmas, from Dr. Blake.

Spectacles and eyeglasses, Anonymous.

SEVENTY-THIRD

ANNUAL REPORT

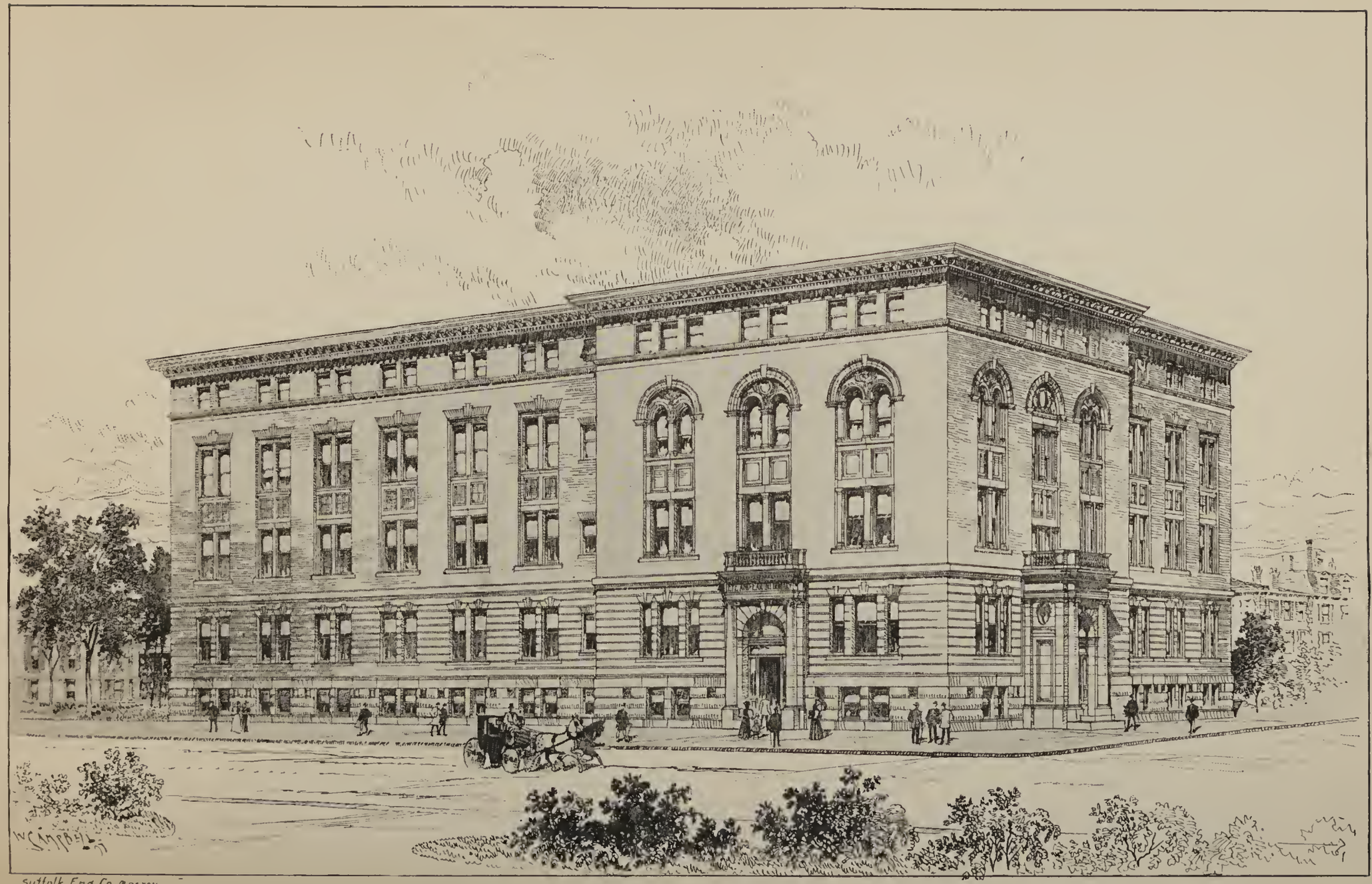
OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1898.



Suffolk Eng Co Boston

SEVENTY-THIRD

ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1898.

BOSTON:
PRESS OF ALFRED MUDGE & SON,
No. 24 Franklin Street.
1899.

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* Appointed by the Commonwealth.

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WM. DUDLEY HALL, M. D.

Aural Surgeons.

CLARENCE J. BLAKE, M. D.
J. ORNE GREEN, M. D.
FREDERICK L. JACK, M. D.
HENRY L. MORSE, M. D.

Assistant Ophthalmic Surgeons.

EDWIN E. JACK, M. D.
FRANK I. PROCTOR, M. D.
ALEXANDER QUACKENBOSS, M. D.
HENRY H. HASKELL, M. D.
WM. J. DALY, M. D.
W. B. LANCASTER, M. D.

Assistant Aural Surgeons.

EDWARD M. PLUMMER, M. D.
EUGENE A. CROCKETT, M.D.

Aural Clinical Assistants.

PHILIP HAMMOND, M. D.
GEORGE A. WEBSTER, M. D.

Pathologist.

LEON E. WHITE, M. D.

WM. DUDLEY HALL, M. D.

Assistant Pathologist.

WM. J. DALY, M. D.

Consulting Neurologist to Aural Department

JAMES J. PUTNAM, M. D.

Consulting Physician.

JOHN L. MORSE, M. D.

Ophthalmic House Officers.

L. W. MANSUR, M. D. H. H. GERMAINE, M. D.

E. W. CLAP, M. D.

Aural House Officer.

A. M. AMADON, M. D.

Superintendent.

FARRAR COBB, M. D.

Matron and Superintendent of Nurses.

MARY COONAHAN.

Apothecary.

HOWARD W. MORSE.

Supervisors.

MITCHELL A. DEARBORN. JOHN G. SCHROEDER.

Optician.

ANDREW J. LLOYD.

REPORT OF THE BOARD OF MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

The Managers herewith present their annual report for the year ending September 30, 1898.

By far the most important feature of the year has been the erection of the new hospital, the plans of which were published in last year's report.

In 1896 the Legislature appropriated $100,000 to be expended for a new hospital. The lot of land upon North Charles Street adjoining the Massachusetts General Hospital was purchased and the new building has been erected thereon.

Plans were perfected by Shaw & Hunnewell, architects, in consultation with the Superintendent, Dr. Farrar Cobb. The more nearly the building approaches completion the more we are convinced that our hopes will be realized and that "the Hospital when completed will be one of the best of its kind in the world."

All of its details have been carefully considered and worked out so as to provide for the greatest possible economy in administration, while fully meeting all the requirements of the most improved hospital sanitation.

While the new hospital will provide adequately for the proper treatment of our constantly increasing number of patients, it has been so simplified and centralized in plan, that we believe its general administration can be provided for without any increase in our present forces or expenses.

Any increase in expenses will be because of an increase in

the number of patients treated, but not because of the increase in the per capita expenditure for each patient.

The hospital will be complete in every way. It will have a model laundry, a disinfecting room, refrigeration and ice-making plant, a kitchen and bakery fitted up with the latest and best appliances.

It will be heated by steam by indirect radiation and lighted by electricity throughout.

It is of fireproof construction, the exterior walls being of brick, the interior partitions of metal frame work with plaster on wire lathing.

The floors are made of concrete upon expanded metal with finished floors laid in terazzo.

An almost unique feature will be the isolated building for the treatment of contagious diseases of the eye. This building will constitute a thoroughly equipped contagious hospital. It will enable us to treat those most important diseases of the eye, which, unless properly cared for, invariably lead to blindness.

Few people realize that many of the ophthalmic hospitals in this country refuse to receive as inmates patients afflicted with such diseases of the eye.

In the past we have felt that we ought not to refuse to admit cases of this character, but we have treated them at great expense and under many disadvantages. This treatment, while of incalculable benefit to the patients, has involved an undue amount of risk and has been a source of great anxiety and trouble.

In the new contagious building we have facilities for complete isolation and the best treatment of such cases.

Mr. George A. Gardner has most generously contributed the large sum of money necessary for the erection of this building.

The hospital is rapidly approaching completion and we hope to be able to move into it early in the spring.

While the estimated cost of building and equipping the hospital was, as we stated last year, $190,000, now that the completed building is entirely contracted for and most of its equipment has been ordered, it seems probable that the total expense will be about $200,000, or within five per cent of the estimates. We can congratulate ourselves on this result.

While exercising the most rigid economy, we believe we have secured furniture and fittings which are equal to those of any hospital in the country.

The Trustees must now collect about $25,000 more money to pay for the completed hospital, and they earnestly solicit donations for that purpose. The purchase of the land on North Charles Street for $82,500, left $17,500 of the State's contribution which could be expended in the erection of the new hospital building; $157,500 has been donated to the institution since this work was first inaugurated. This leaves us with a deficit of $25,000 which must be met by public subscription.

The work of the institution has been most satisfactory during the year. There were 156 more patients treated in the wards than last year, making 1,420 in all.

At the same time the total cost of running the hospital was reduced over $629 and the per capita expense per week was $11.44 for each patient treated in the wards instead of $11.62 as in 1897.

There were 20,929 new patients treated in the Out-Patient Department. The total number of patients treated in the Out-Patient Department was 59,447.

All these patients were poor and they came from all over the State. More than one half of the large number of house-patients treated were too poor to pay anything at all for their treatment. Only one hundred and thirty-six were able to pay the maximum charge of six dollars a week.

As the work of the institution increases year by year with the growth of the community, we have constantly to meet a

yearly deficit. This year we were obliged to expend over five thousand dollars more than our income from all sources, including subscriptions. This compels the Trustees to call upon the public to contribute not only such annual subscriptions as the friends of the institution have contributed in the past, but enough more to enable them to pay the necessary expenses of the hospital.

They feel sure that there is no better charity than that of treating diseases of the eye and ear, especially in view of the fact that the treatment often enables the patients to continue to support themselves and their families.

The money expended which was under forty-nine thousand dollars last year can accomplish no greater benefit for the community than in treating 1,420 poor and deserving patients in the wards, and 59,447 in the Out-Patient Department.

The Trustees earnestly solicit annual subscriptions for this purpose which should be sent to the Treasurer, Augustus Hemenway, 10 Tremont Street, Boston, Mass.

The Trustees desire to acknowledge the following bequests and donations received by the Institution during the past year: —

J. W. and Belinda Randall Trust, a special fund, $30,000; estate of J. Putnam and Helen C. Bradlee, $25,000; Geo. A. Gardner, $17,000; Henry L. Pierce estate, $20,000; estate of Fred E. Weber, a special fund, $5,000; estate of Eliza A. Colburn, $5,000; estate of Peter F. Haggerty, $2,448.32; H. H. Hunnewell & Sons, $1,000; Geo. W. Black, $1,000; A. C. Slater, $1,000; Mr. and Mrs. Henry Pickering, $100 in 1897 and $100 in 1898; Elisha H. Lyon, $100; Eliza B. Skinner, $50; Lulu S. Kimball, $25; Mrs. James M. Crofts, $20; Emily J. Jackson, $10.

J. COLLINS WARREN, M. D., LL. D.,
WM. D. SOHIER,
For the Board of Managers.

REPORT OF THE TREASURER

OF THE

Massachusetts Charitable Eye and Ear Infirmary,

FOR THE YEAR ENDING SEPT. 30, 1898.

INCOME.

RECEIPTS.

Income from Investments		$10,060 89
Income from will E. V. Ashton		1,350 00
Gift from State		25,000 00
Rebate Bank Tax		363 50
Gift in response to circular of November, 1896		355 00
From Superintendent, per this report:		
Board Patients	$3,211 08	
Optician's Account	4,890 90	
Medicines	4,252 20	
Sundries	267 33	
		12,621 51
		$49,750 90
Excess of expenditures over receipts		5,421 31
		$55,172 21

EXPENDITURES.

Running Expenses per account of Superintendent		$48,334 93
Additional Expenses per Account of Treasurer:		
Balance from last year's account (deficit preceding years)	5,060 06	
Pittsfield visits	156 50	
Annuities	300 00	
Sundries	377 25	
Insurance	480 00	
Printing and Petties	463 47	
		6,837 28
		$55,172 21

REPORT OF THE SUPERINTENDENT.

For the Year ending September 30, 1898.

To the Board of Managers:

Gentlemen,— The past year has been a busy and satisfactory one. The new hospital has progressed and the work in the old buildings has gone on smoothly.

The number of patients cared for in the wards was 1,420, 156 more than preceding year.

The cost of maintenance was less by $629.72 than in 1897, and the per capita expense per week was reduced from $11.62 to $11.44.

The detailed analysis of work and expenditures and receipts is herewith given, together with a comparative view for the past three years.

STATISTICS OF HOUSE-PATIENTS.

The number of patients treated in the wards was 1,420.

Of the 1,420 house-patients, 845 were males, and 575 females.

Patients treated in Ophthalmic wards	1,096
Patients treated in Aural wards	324

Of the total number, 369 were children under 14 years.

Daily average of patients in wards was 81.

Largest number of house-patients at any one time in 1898 was 99.

Free patients admitted	746
Paying patients at $6.00 per week	136
Paying patients at less than $6.00 per week	455

The average stay per patient in the hospital under treatment was 20.04 days.

RESIDENCE OF HOUSE-PATIENTS.

Boston	556	Rhode Island	6
Massachusetts (excepting Boston)	797	British Provinces	2
Maine	10	Other States	4
New Hampshire	38		1,420
Vermont	7		

OCCUPATION OF HOUSE-PATIENTS.

MALES.

Artists	2	Painters and Glaziers	19
Agents	4	Porters	2
Barbers	11	Police	1
Butchers	3	Printers	2
Bookkeepers	2	Pedlers	9
Blacksmiths	2	Physicians	2
Clerks	44	Plumbers and Steam Fitters	9
Clergymen	2	Railroad Employees	18
Carpenters	34	Seamen and Fishermen	11
Cooks	7	Shoemakers	25
Coachmen and Hostlers	9	Stone-masons	16
Engineers	1	Stone-cutters	23
Firemen	3	Soldiers	2
Farmers	38	Salesmen	12
Gardeners	8	Shipwrights	4
Laborers	133	Students	4
Mill and Factory operatives	64	Teamsters	29
Machinists	22	Tailors	2
Musicians	1	Waiters	16
Metal workers and Moulders	37	No occupation (minors)	207
Messengers	3		845
Nurses	2		

FEMALES.

Bookkeepers	2	Seamstresses	6
Artists	2	Students	3
Clerks	4	Stenographers	1
Domestics	151	Tailoresses	4
Dressmakers	6	No occupation (minors)	213
Housewives	159		575
Mill and Factory operatives	17		
Nurses	7		

CONDITION OF HOUSE-PATIENTS AT DISCHARGE

685 were well.
533 were relieved.
74 were not relieved.
16 left against advice.
3 eloped.
7 died.
13 not treated.
6 were transferred to other hospitals, for other diseases.
83 remaining in the hospital, Sept. 30, 1898.

NUMBER OF OPERATIONS.

In the Ophthalmic Department there were 2,486 operations performed.

In the Aural Department there were 1,232 operations performed.

OUT-PATIENT DEPARTMENT.

New patients treated.

Ophthalmic:	Males	7,890	
	Females	7,596	
			15,486
Aural:	Males	3,039	
	Females	2,404	
			5,443
Total			20,929

Number of old patients treated in the Out-Patient departments was:

Ophthalmic	20,478	
Aural	18,040	
		38,518
Total attendance in Out-Patient Clinics		59,447

RESIDENCE OF OUT-PATIENTS.

Boston	10,709	Connecticut	12
Massachusetts (except Boston)	9,933	Other States	16
Maine	70	British Provinces	11
New Hampshire	135	England	2
Vermont	27		
Rhode Island	14	Total	20,929

OCCUPATION OF OUT-PATIENTS.

Agents	97	Metal workers and Moulders	53
Artists	11	Musicians	26
Barbers	97	Nurses	110
Bakers	54	Painters and Glaziers	197
Blacksmiths	187	Pedlers	99
Bookbinders	33	Pensioners	11
Bookkeepers	126	Photographers	12
Butchers	43	Physicians	3
Carpenters	329	Plumbers and Steam Fitters	118
Children	5,030	Police	28
Clergymen	22	Steam and Street R. R. Employees	301
Clerks	952	Sailors	106
Coachmen and Hostlers	127	Seamstresses	527
Compositors and Printers	136	Shoemakers	195
Domestics	1,733	Stenographers	37
Electricians	66	Stonecutters	226
Engineers	121	Storekeepers	69
Engravers	9	Students	204
Farmers	148	Tailors	244
Firemen	69	Teachers	96
Fishermen	36	Teamsters	373
Hotel keepers	24	Telegraph operators	29
Housewives	3,539	Waiters	133
Laborers	1,655	Wood workers	163
Masons	134	Other occupations	481
Messengers	46		
Machinists	524		29,929
Milliners	62		
Mill and Factory operatives	1,678		

A COMPARATIVE VIEW OF RECEIPTS AND EXPENDITURES FOR 1896, 1897 AND 1898.

RECEIPTS.

	1896.	1897.	1898.
Board of patients	$2,848 72	$3,012 60	$3,211 08
Drug Department	4,063 25	4,478 28	4,252 20
Optical "	4,676 75	5,519 55	4,890 90
Sundries	421 39	153 67	267 33
Totals	$12,010 11	$13,164 10	$12,621 51

EXPENDITURES.

	1896.	1897.	1898.
Provisions	$11,051 64	$10,704 07	$11,583 12
Wines and Liquors	151 50	117 05	132 80
Water Rates	855 60	1,412 40	1,398 10
Gas and Oil	1,188 05	1,321 65	1,283 20
Ice	579 41	438 99	464 74
Wages	18,973 20	18,476 55	18,560 54
Fuel	2,756 22	2,612 29	2,698 59
Medicines and Dispensary	2,473 33	2,862 12	1,855 66
Stationery and Printing	913 37	653 13	537 54
Optical and Surgical Departments supplies	3,701 99	4,208 37	3,972 02
Repairs	2,300 38	1,762 17	1,650 71
Furnishings and Supplies, general	3,185 77	2,099 74	2,190 70
Contingent and Sundries	1,715 18	2,296 12	2,007 21
Totals	$49,845 64	$48,964 65	$48,334 93

PER CAPITA EXPENSE.

	1896.	1897.	1898.
The cost of maintenance per house patient per week was	$12 67	$11 62	$11 44
The cost of maintenance per inmate per week was	7 17	6 72	6 48

RECEIPTS AND EXPENSES FOR 1898.

RECEIPTS.

Board of Patients	$3,211 08
Drug Department	4,252 20
Optical Department	4,890 90
Sundries	267 33
Total	$12,621 51

EXPENSES.

The total expenditure by the Superintendent has been $48,334.93, which is itemized as follows: —

Provisions		$11,583 12
Meat, Fish and Poultry	$4,088 13	
Fruit and Vegetables	1,162 21	
Bread and Flour	995 65	
Milk	1,977 28	
Groceries	1,955 25	
Butter and Eggs	1,404 60	
Wines and Liquors		132 80
Water Rates		1,398 10
(Cost of Hydraulic elevator included which equalled one-third or	349 52)	
Gas, Oil and Electric power and light		1,327 50
Gas	1,237 40	
Kerosene	4 95	
Lubricating Oil	73 15	
Electric power and light	12 00	
Ice		464 74
Fuel		2,698 59
Medicines and Cost of Drug Stores		1,855 66
Stationery and Printing		537 54
Wages		18,560 54
Officers (Superintendent, Matron, Druggist, House Officers)	3,527 68	
Clerks, Office and Clinical	1,520 00	
Day Engineer	954 19	
Night Engineer	489 00	
Trained nurses, permanent	2,085 10	
Trained nurses, Post-Graduate	864 00	

Untrained nurses	$1,458 00	
Attendants, male	2,366 84	
Night watchman	258 28	
Porters	467 44	
Kitchen Department	1,578 54	
Laundry	965 86	
General women	1,785 61	
Sewing room	240 00	
Optical and Surgical Instruments and Supplies		$3,972 02
Cost of Optical Department	3,511 20	
Surgical and Optical Instruments	460 82	
Repairs		1,650 71
Plumbing, etc.	575 48	
Carpentering	145 29	
Steam-plant	210 98	
Mason work	22 87	
Painting and Glazing	195 50	
Mattresses and Furniture	229 30	
Laundry and Kitchen	71 12	
Electric bells, locks, keys, etc.	48 45	
Elevator	25 36	
House Cleaning	126 36	
Furnishings and Supplies		2,358 65
Soap	192 48	
Linen room Supplies	517 07	
Furniture, office and wards	86 88	
General Supplies	1,352 19	
Disinfecting Apparatus	100 00	
Orderlies' Uniforms	52 13	
Bacteriological Laboratory Supplies	57 90	
Contingent and Sundries		1,794 96
Telephone bills	127 80	
Rent of Rooms, nurses and attendants	584 25	
Library funds	95 24	
Advertising	32 00	
Watering street and care of grounds	115 26	
Contingent repairs	24 62	
General contingent and sundries	815 79	

TRAINING SCHOOL FOR NURSES.

The average number of nurses in daily attendance has been eighteen. Of this number, six have always been post-graduates. The total number of graduate nurses taking the

course has been twenty-one. The number of diplomas given has been eighteen. The number of applicants for the course has been thirty-five. The usual number of lectures and demonstrations have been given by the Surgeons and Assistant Surgeons and House Staff.

The faithful work of the Matron, Miss Coonahan, has been of great assistance to me throughout the year.

Respectfully submitted,

FARRAR COBB.

REPORT OF OPHTHALMIC SURGEONS,

INCLUDING A

REPORT OF ONE HUNDRED AND FORTY OPERATIONS

FOR THE

REMOVAL OF CATARACT,

Performed at the Infirmary by the Ophthalmic Staff during the Year ending August 31, 1898.

Compiled by Wm. Dudley Hall, M. D.

The increase in the amount of work that has been noticed each year as having been accomplished by the Ophthalmic Surgeons and Assistant Surgeons bears witness to the good judgment and foresight of those who have suggested and shown themselves active in the developing of the beautiful new building which is so rapidly approaching completion and soon will prove such an important factor for the relief of the unfortunate.

It becomes a pleasure at this time to make mention of the appreciation of this staff for Dr. Farrar Cobb who has so performed his duties as Superintendent, which at the present time are extremely exacting, in a way that the existing relations are of the pleasantest nature possible. The internes have shown themselves appreciative of the exceptionable advantages offered, and by enthusiasm, sincerity, and ability have contributed materially to the success of the year. The thanks of the staff are likewise due the Matron, who through her clever management of the Training School has certainly exerted an unmistakable influence.

Of the important operations that of the extraction of the crystalline lens has been performed one hundred and forty times, as follows:—

Modified Von Graefe	46
Simple extraction	38
Simple extraction with buttonhole of the iris,	31
Cataracts other than senile	25
	140

Of these, one hundred and fifteen may be taken as senile cataracts, forty years being taken as the standard.

The visions, which in most cases were taken at the time of discharge, were as follows: —

Vision = 1.	1	Vision = 0.1	7
" = 0.6	1	" = shadows . . .	3
" = 0.5	6	" = nil	1
" = 0.4	8		46
" = 0.3	5		
" = 0.2	14		

SIMPLE EXTRACTION.

Vision = 1	0	Vision = 0.2	15
" = 0.9	2	" = 0.1	5
" = 0.8	2	" = fingers . . .	2
" = 0.5	2	" = shadows . . .	1
" = 0.4	4	" = nil	1
" = 0.3	4		38

SIMPLE EXTRACTION WITH BUTTONHOLE OF THE IRIS.

Vision = 0.8	1	Vision = 0.2	8
" = 0.7	1	" = 0.1	6
" = 0.6	1	" = shadows . . .	1
" = 0.4	2	" = fingers . . .	1
" = 0.3	9		30

The number of secondary operations is thirty-one: —

Von Graefe	6
Simple extractions	19
Buttonhole	6
	31

A loss of vitreous occurred in four cases, three during the modified Graefe operation, the other being in the course of a simple extraction.

The scoop was used three times.

The eye was totally lost in two cases. According to case 46 of the modified Graefe operations, the patient violently contracted the ocular muscles, thereby causing considerable loss of vitreous. During the first dressing a large blood clod was noticed in the wound. Ultimately the cornea became hazy, a mass of exudate filled the pupil, and disorganization soon followed.

Case 30 of the simple extractions came to enucleation.

There were eight cases in which the vision was below one tenth. Of the Von Graefe operations case 17 went through a suppurative kerato-iritis, the patient being very restless, pulling off his bandage, etc., and also showing symptoms of dementia. In case 23 there was considerable hemorrhage into the anterior chamber during the extraction, and for some days afterwards the pupil was occluded with blood and cortical. A poor prognosis was given in case 36 because of a greatly reduced tension, separation of the retina, and well-marked choroidal atrophy. Among the simple extractions the low vision of case 1 was explained by a large prolapse of the iris which drew the pupil upwards. The very dense membrane in case 2 can undoubtedly be split at a later date. In case 16, the prolapse drew the pupil strongly upwards. Of the simple extractions with a button-hole the chronic nephritis accounted for the poor showing of case 9. In case 14 an iritis with exudation and diabetes mellitus are recorded. As most of the visions were taken at time of discharge ultimate visions will undoubtedly be higher.

In all cases an attempt was made to carry out a method of strict antisepsis both as regards the patient and the instruments employed.

WM. DUDLEY HALL,

For the Board of Ophthalmic Surgeons.

MATURE SENILE CATARACTS.

Modified Graefe Extractions.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
1	Male. 64 Ireland. Good.	2 years. Senile. Normal.	Sept. 4, 1897. O. D. Cocaine. Fluid vitreous, small amount lost. Atropine. 21 days.	V. = 1.
2	Female. 66 Amer. Good.	2 years. Senile. Normal.	Sept. 9, 1897. O. D. Cocaine. Atropine. 18 days.	V. = 0.5.
3	Male. 70 Amer. Good.	1 year. Senile. Normal.	Sept. 15, 1897. O. S. Cocaine. Large amber nucleus, very little soft cortical. Nothing abnormal. 13 days.	V. = 0.5.
4	Male. 55 Ireland. Good.	1 year. Senile. Normal.	Sept. 16, 1897. O. D. Cocaine. Capsule tough. Atropine. Healing normal. Some cortical in pupil. 14 days.	V. = 0.2.
5	Male. 69 Amer. Good.	7 months. Senile. Normal.	Sept. 22, 1897. O. S. Cocaine. Large nucleus, clear pupil. Few synechiæ. Atropine. 13 days.	V. = 0.3.
6	Male. 59 Canada. Good.	1 year. Senile. Normal.	Sept. 23, 1897. O. S. Cocaine. Lens removed by a simple extraction; afterwards an iridectomy was made because of opaque capsule. Atropine. Thick membrane with small hole in the centre. 27 days.	V. = 0.2.
7	Male. 76 Amer. Good.	3 years. Senile. Normal.	Sept. 23, 1897. O. D. Cocaine. Lens removed by simple extraction, but an iridectomy was necessary as the cornea collapsed. Atropine. 20 days.	V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
8	Female. 76 Amer. Good.	4 years. Senile. Normal.	Sept. 25, 1897. O. S. Cocaine. Corneal incision enlarged. Very large nucleus. Collape of cornea. A mucopurulent discharge of long standing. Cataract operation discouraged. 19 days.	V. = 0.1.
9	Female. 71 Canada. Good.	2 years. Senile. Normal.	Sept. 29, 1897. O. D. Cocaine. Large nucleus. Almost no soft cortical. 18 days.	V. = 0.5.
10	Female. 60 Canada. Good.	1 year. Senile. Normal.	Oct. 2, 1897. O. D. Cocaine. Atropine. Considerable capsule and opaque cortical, with large clear space above. 30 days.	V. = 0.4.
11	Female. 76 Amer. Good.	1 year. Senile. Normal.	Oct. 2, 1898. O. S. Cocaine. Lens removed by simple incision, then a small iridectomy done upwards to aid in removing soft lens substance. Atropine. Some synechiæ below. 15 days.	V. = 0.5.
12	Female. 80 Amer. Good.	5 years. Senile. Normal.	Oct. 6, 1897. O. D. Cocaine. Large nucleus, very little cortical. Atropine. 13 days.	V. = 0.2.
13	Female. 52 Amer. Good.	2 years. Senile. Normal.	Oct. 6, 1897. O. D. Cocaine. As lens could not be pressed out, an iridectomy was made and lens removed by a scoop. Considerable cortical in pupil. Atropine. 24 days. There was choroiditis, floating opacities and fluid vitreous.	V. = 0.2.
14	Male. 70 Amer. Good.	2 years. Senile. Normal.	Oct. 15, 1897. O. S. Cocaine. Tension minus, large lens removed, leaving a clear pupil. Atropine. 8 days.	V. = 0.2.
15	Female. 70 Ireland. Good.	1½ years. Senile. Normal.	Oct. 15, 1897. O. S. Cocaine. Atropine. Round central pupil, some cortical above; a few synechiæ below. 16 days.	V. = 0.3.
16	Female. 79 Amer. Good.	5 years. Senile. Normal.	Oct. 23, 1897. O. D. Cocaine. In making corneal cut, iris folded over knife, therefore the operation was converted into one with iridectomy. 19 days.	V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
17	Male. 80 Amer. Poor.	2 years. Senile. Normal.	Nov. 1, 1897. O. D. Cocaine. Lens large, some cortical left in pupil. Iritis and keratitis, dementia. 20 days.	V. = shadows.
18	Male. 65 Ireland. Good.	1 year. Senile. Normal.	Nov. 3, 1897. O. D. Cocaine. Bead of vitreous presented. Atropine. Conjunctivitis. 39 days.	V. = 0.2.
19	Male. 72 Amer. Good.	2 years. Senile. Normal.	Nov. 5, 1897. O. S. Cocaine, Moderately clear pupil. Atropine. Anterior chamber shallow, with a little cortical in pupillary area. 25 days.	V. = 0.4.
20	Female. 67 Amer. Good.	4 years. Senile. Normal.	Nov. 5, 1897. O. S. Cocaine. Patient did not behave well during operation. Healing marked by considerable injection, but without pain. 30 days.	V. = 0.2.
21	Female. 60 Canada. Poor. Rheumatic bronchitis.	2 years. Senile. Normal.	Nov. 28, 1897. O. D. Cocaine. Large nucleus, small quantity almost fluid cortical, small iridectomy, clear pupil. Few ant. synechiæ. 20 days.	V. = 0.5.
22	Female. 72 Amer. Good.	4 years. Senile. Normal.	Dec. 16, 1897. O. S. Cocaine. Smooth operation. Atropine. Thin, transparent membrane. 15 days.	V. = 0.2.
23	Female. 75 Amer. Good.	2 years. Senile. Normal.	Dec. 18, 1897. O. S. Cocaine. Considerable blood in anterior chamber. Some capsule. Organized blood and cortical in pupil. 33 days.	V. = P. L.
24	Male. 65 Ireland. Good.	5 years. Senile. Normal.	Dec. 30, 1897. O. S. Cocaine. Smooth operation. Good anterior chamber, and clear pupil. Slight injection, and slight capsule. 27 days.	V. = 0.3.
25	Female. 55 Ireland. Good.	1½ years. Senile. Normal.	Jan. 20, 1898. O. S. Cocaine. Operation smooth. 19 days.	V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
26	Female. 69 Amer. Good.	7 years. Senile. Hypermature. Normal.	Jan. 27, 1898. O. D. Cocaine. Lens extraction difficult from old adhesion. Considerable hemorrhage. Healing attended with considerable puffiness of lids, injection, pain. 22 days.	V. = 0.2.
27	Female. 61 Canada. Good.	1½ years. Senile. Normal.	Jan. 31, 1898. O. S. Converted from a simple extraction by an iridectomy. Eserine. Healing without incident. Feb. 11, 1898. Secondary. No reaction. 15 days.	V. = 0.4.
28	Male. 48 Amer. Good.	1 year. Senile. Normal.	Feb. 21, 1898. O. D. Cocaine. Patient unruly, and the proposed simple extraction was followed by an iridectomy. Considerable fluid cortical, small nucleus, clear pupil. Healing rapid, and without incident. 17 days.	V. = 0.1.
29	Female. 57 Amer. Good.	4 years. Senile. Normal.	March 12, 1898. O. S. Cocaine. Operation without incident, healing rapid. 16 days.	V. = 0.6.
30	Female. 56 Amer. Good.	2 years. Senile. Normal.	March 15, 1898. O. S. Cocaine. Good operation, rapid healing. 16 days.	V. = 0.4.
31	Male. 78 Norway. Good.	1½ years. Senile. Normal.	March 28, 1898. O. S. Cocaine. Prolapse persisted, which was finally cut off. Healing delayed by cortical, some pain. 35 days.	V. = 0.4.
32	Male. 65 Ireland. Good.	2 years. Senile. Normal.	March 29, 1898. O. D. Cocaine. Vitreous lost in small amount. Healing without pain. Some membrane. 16 days.	V. = 1/10.
33	Female. 60 Ireland. Good.	1½ years. Senile. Normal.	March 31, 1898. O. D. Cocaine. Smooth operation. Healing rapid. 14 days.	V. = 0.4.
34	Female. 54 Sweden. Good.	2 years. Senile. Normal.	April 6, 1898. O. S. Cocaine. Smooth operation. Cortical in pupil delays healing. 30 days.	V. = 0.4.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
35	Female. 71 England. Good.	2 years Senile. Normal.	May 4, 1898. O. S. Cocaine. Good operation, healing somewhat delayed by cortical. 26 days.	V. = 0.1.
36	Male. 73 Amer. Good.	3 years. Senile. Poor.	May 5, 1898. O. S. Cocaine. Eye soft, cornea very tough, section difficult. Healed well. Old choroidal atrophy at macula. 23 days.	V. = shadows.
37	Female. 68 Ireland. Good.	6 years. Senile. Normal.	May 11, 1898. O. D. Cocaine. Iridectomy done four years ago. Healing rapid. 16 days.	V. = 0.2.
38	Male. 74 Amer. Good.	1 year. Senile. Normal.	May 15, 1898. O. S. Cocaine. Good operation. Lens came almost entire. Rapid healing. June 7. Secondary.	V. = 0.2.
39	Male. 58 Canada. Good.	2 years. Senile. Normal.	May 17, 1898. O. S. Cocaine. Operation regular, though patient behaved badly. Healing rapid. 14 days.	V. = 0.2.
40	Male. 81 Amer. Good.	8 years. Senile. Hypermature. Normal.	June 6, 1898. O. S. Cocaine. Considerable soft cortical. Rapid healing. 15 days.	V. = 0.5.
41	Male. 67 Amer. Good.	Hypermature. Senile. Iridodonesis. Normal.	June 9, 1898. O. S. Cocaine. Large black nucleus. Scoop. Slight loss of vitreous. June 30, 1898. Secondary. 27 days.	V. = 0.2.
42	Female. 71 Amer. Good.	10 years. Senile. Normal.	June 13, 1898. O. S. Cocaine. Large lens. Some cortical. Healing slow. 24 days.	V. = 0.4.
43	Male. 85 Amer. Good.	Senile. Normal.	June 17, 1898. O. S. Cocaine. Nothing unusual.	V. = 0.1.
44	Male. 56 Amer. Good.	2 years. Senile. Normal.	June 22, 1898. O. S. Cocaine. Fluid vitreous followed the incision. Healing without complications. 22 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
45	Male. 74 Ireland. Good.	Senile. Normal.	July 21, 1898. O. D. Cocaine. Iris rigid, therefore iridectomy done. During healing hemorrhage into anterior chamber. 12 days.	V. = o.$\frac{1}{10}$.
46	Male. 76 Amer. Good.	6 years. Senile. Normal.	Aug. 18, 1898. O. S. Operation converted from a simple extraction to a combined operation with an iridectomy on account of a tendency to prolapse. Patient behaved badly, and much fluid vitreous escaped. At evening dressing blood clot in wounds, which finally organized and sloughed. 46 days.	V. = nil.

MATURE SENILE CATARACTS.

Simple Extractions.

1	Male. 74 Amer. Good.	2 years. Senile. Normal.	Sept. 17, 1897. O. D. Cocaine. Some cortical left in pupil. Anterior chamber re-established. Tardily organized exudate. Bandage. 20 days.	V. = fingers.
2	Female. 82 Amer. Good.	4 years. Senile. Normal.	Oct. 6, 1897. O. D. Cocaine. Atropine. Pupil round, but contains dense capsule and cortical. 13 days.	V. = shadows.
3	Male. 75 Scotland Good.	7 years. Senile. Normal.	Oct. 25, 1897. O. D. Cocaine. Large lens removed; but little cortical left behind. Prolapse along whole length of the wound, which was finally excised. 30 days.	V. = 0.1.
4	Male. 55 W. Indies Good.	1 year. Senile. Normal.	Dec. 6, 1897. O. S. Cocaine. Section within cornea. Cut in capsule T shape. Iris did not dilate well. Atropine. Film partly gray, partly pigmented in pupil. Secondary. Dec. 24, 1897.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
5	Female. 74 England. Good.	1 year. Senile. Normal.	Dec. 17, 1897. O. D. Cocaine. Eserine one tenth per cent, although pupil did not react to mydriatics. A rather large nucleus passed out easily. Atropine. Anterior chamber not established on the fifth day. Otherwise normal. Secondary. Jan. 7, 1898. 24 days.	V. = 0.2.
6	Male. 70 Ireland. Good.	1 year. Senile. Counts fingers.	Dec. 17, 1897. O. S. Cocaine. Smooth operation. One tenth per cent eserine, on omitting bandage five days after. Pupil round, central. Wound well healed. Injection. Post. synechiæ. Fine webs in pupil. Secondary. Jan. 7, 1898.	V. = 0.2.
7	Male. 75 England. Good.	3 years. Senile. Normal.	Dec. 24, 1897. O. D. Cocaine. Lens not very large. Small amount of cortical. Pupil central and clear. Eserine one tenth per cent. Healing normal, except a small entropion. A zone of choroidal atrophy around disk. 12 days.	V. = 0.2.
8	Male. 61 Ireland. Good.	1½ years. Senile. Normal.	Dec. 31, 1897. O. S. Cocaine. Fair nucleus, considerable cortical, capsule drawn out by forceps. Eserine, one tenth per cent. Small prolapse, slight keratitis. 19 days.	V. = 0.2.
9	Female. 68 Ireland. Good.	7 years. Senile. Normal.	Dec. 31, 1897. O. D. Cocaine. Patient unruly, small incision, afterwards extended; large mahogany nucleus followed by blackish emulsion. Central pupil. Eserine, one tenth per cent. Healing normal. Feb. 9, 1897. Secondary operation. No reaction.	Jan. 24. V. = 1/20. Ultimate Vision = 0.2.
10	Male. 76 Amer. Good.	2 years. Senile. Normal.	Jan. 5, 1898. O. D. Cocaine. Lens fairly thick, but not large; small amount of cortical came away. After operation, pupil remained large, but no prolapse. Eserine. Healing normal. Slight prolapse. Irregular atrophy of choroid about disk. Secondary, April 27, 1898.	V. = fingers. April 30, 1898. V. = 1/10.
11	Male. 63 Amer. Good.	2 years. Senile. Normal.	Jan. 12, 1898. O. D. Cocaine. Large thick nucleus, more transparent than usual. Eserine. Operation without incident. Healing normal.	V. = 0.9.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
12	Male. 68 Canada. Good.	2 years. Senile. Normal.	Jan. 21, 1898. O. D. Cocaine. Lens came out with a jerk due to contraction of ocular muscles. Pupil clear and central. Healing normal. March 7, 1898. Secondary. 17 days.	V. = 0.1. Feb. 6, 1898. V. = 0.4.
13	Male. 72 Amer. Good.	2 years. Senile. Normal.	Feb. 4, 1898. O. S. Cocaine. Large amber lens, little cortical. Eserine. Healing without incident. 15 days.	V. = 0.9.
14	Female. 62 Ireland. Good.	2½ years. Senile. Normal.	Feb. 4, 1898. O. D. Cocaine. Small nucleus. Considerable sticky cortical. Eserine. Atropine later. No especial reaction. Secondary Feb. 25, 1898. 24 days.	V. = 0.3.
15	Female. Amer. Good.	3 years. Senile. Normal.	Feb. 8, 1898. O. S. Cocaine. Cornea soft and tendency to wrinkle. Fair-sized nucleus with some soft cortical. Eserine. Healing without incident. 16 days.	V. = 0.4.
16	Male. 57 Ireland. Good.	6 years. Senile. Normal.	Feb. 15, 1898. O. S. Cocaine. Fair size nucleus, considerable soft cortical. Iris drew back into place. Clear pupil. Eserine. Prolapse of iris in wound. Pupil drawn up. 36 days.	V. = fingers.
17	Female. 44 Germany. Good.	10 years. Senile. Normal.	Feb. 25, 1898. O. S. Cocaine. Small hard nucleus, surrounded by abundant milky emulsion. Some tendency to prolapse. Eserine. Healing rapid. 19 days.	V. = 0.5.
18	Male. 76 Amer. Good.	4 years. Senile. Complicated old Iritis. Fair.	March 1, 1898. O. D. Cocaine. Lens removed without incident. Clear pupil. Tardy re-establishing of the anterior chamber. 16 days. March 14. Secondary.	V. = 0.1.
19	Male. 68 Amer. Good.	6 years. Senile. Normal.	March 1, 1898. O. D. Large nucleus, little cortical. Iris slowly drew back into place. Eserine. Healing rapid. 10 days.	V. = 0.2.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
20	Female. 60 Amer. Good.	7 years. Senile. Normal, except down.	March 4, 1898. O. S. Cocaine. Patient unruly. Considerable prolapse of iris which went back again. Eserine. Healing rapid. March 25, 1898. Secondary.	V. = 0.3.
21	Male. 76 Ireland. Good.	2 years. Senile. Tremulous iris. Normal.	March 4, 1898. O. S. Lens hard and thick, came out slowly with a little vitreous. Eserine. On removing the bandage considerable cortical was found to be present. The iris was drawn up. April 8. Secondary. Thick membrane. 35 days.	V. = 1/10.
22	Male. 72 Amer. Good.	2 years. Senile. Normal.	March 7, 1898. O. D. Cocaine. Operation smooth. Tardy formation of anterior chamber. Some watery chemosis, little injection. 19 days.	V. = 0.2.
23	Male. 68 Ireland. Good.	3 years. Senile. Normal.	March 9, 1898. O. D. Cocaine. Patient unruly. Small loss of vitreous. April 6, 1898. Secondary.	V. = 0.4.
24	Male. 66 Italy. Good.	2 years. Senile. Normal.	March 11, 1898. O. S. Cocaine. Smooth operation. Eserine. Healing rapid, with but little injection. Secondary. April 3, 1898.	V. = 0.2.
25	Female. 66 Canada. Good.	3 years, Senile. Normal.	March 11, 1898. O. D. Cocaine. Large nucleus with considerable dark mucilaginous cortical. March 25, 1898. Secondary.	V. = 0.2.
26	Male. 73 Amer. Good.	1 1/2 years. Senile. Normal.	March 11, 1898. O. D. Cocaine. Large lens, some cortical. Eserine. Rapid healing, slight congestion. March 19, 1898. Secondary.	V. = 0.5.
27	Male. 63 Ireland. Good.	1 year. Senile. Normal.	March 21, 1898. O. D. Cocaine. Fair-sized nucleus, large amount of cortical. After one week, iritis with hypopion. Healed rapidly. Pupil contains exudate. April 14, 1898. Secondary. 33 days.	V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
28	Male. 46 Ireland. Good.	1 1/2 years. Senile. Normal.	March 23, 1898. O. D. Cocaine. Patient unruly. Considerable cortical. Healing rapid. 9 days.	V. = 0.1.
29	Female. 60 Ireland. Good.	Senile. 1 year. Tremulous iris. Normal.	April 7, 1898. O. D. Cocaine. Some vitreous lost. Patient behaved badly. Prolapse in the wound. 30 days.	V. = 0.2.
30	Male. 70 Amer. Good.	4 years. Senile. Normal.	April 12, 1898. O. S. Cocaine. Some cortical in pupil. Eserine, one tenth per cent. 48 days. Enucleation.	V. = nil.
31	Male. 71 Amer. Good.	2 years. Senile. Normal.	April 21, 1898. O. D. Cocaine. Eye very soft. Very little cortical. Some floating opacities in vitreous. Healing rapid. 19 days.	V. = 0.2.
32	Female. 75 Amer. Good.	9 years. Senile. Normal.	April 23, 1898. O. D. Cocaine. Nucleus followed by large amount of cortical. 18 days.	V. = 0.2.
33	Male. 58 Canada. Good.	2 years. Senile. Normal.	April 28, 1898. O. D. Cocaine. Good operation, no prolapse. Pilocarpine. Rapid healing. 15 days.	V. = 0.2.
34	Female. 59 Amer. Good.	1½ years. Senile. Normal.	May 5, 1898. O. S. Cocaine. Good operation. Rapid healing.	V. = 0.8.
35	Female. 65 Amer. Good.	6 years. Senile. Normal.	May 10, 1898. O. D. Cocaine. Good operation, healed well to seventh day, when she by a blow, reopened the anterior chamber. Did well.	V. = 0.8.
36	Male. 50 Amer. Good.	Senile. Iridodonesis. Normal.	June 9, 1898. O. S. Cocaine. Small yellow milky cortical. Blow on eye fifth day. Wound opened. Healed well, without prolapse. 23 days.	V. = 0.2.
37	Male. 46 Ireland. Good.	Normal.	July 16, 1898. O. D. Cocaine. Operation without incident.	V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing process. Duration of Treatment.	Vision.
38	Male. 46 Amer. Good.	2 years. Senile. Normal.	July 28, 1898. O. S. Cocaine. Tendency to prolapse. Healing rapid. 10 days.	V. = 0.4.

MATURE SENILE CATARACTS.

Simple Extractions, with Buttonhole of Iris.

1	Female. 42 Amer. Good.	1 year. Senile. Normal.	Oct. 7, 1897. O. S. Cocaine. Clear, round, central pupil. Atropine. 13 days.	V. = 0.4.
2	Male. 68 Ireland. Good.	8 months. Senile. Normal.	Oct. 12, 1897. O. S. Cocaine. Clear round pupil, tremulous iris. Atropine. Delirium tremens. Transferred to Boston City Hospital on eighth day. Died four days later.	V. = 0.2.
3	Female. 50 England. Good.	3 years. Senile. Normal.	Oct. 13, 1897. O. S. Cocaine. One tenth per cent eserine. Atropine four days later. Some pain. 15 days.	V. = 0.2.
4	Male. 73 Amer. Good.	4½ years. Senile. Normal.	Oct. 13, 1897. O. S. Large lens removed. Atropine. 13 days.	V. = 0.3.
5	Female. 80 Ireland. Good.	4 years. Senile. Normal.	Oct. 13, 1897. O. S. Without complications. Patient restless, pulls off bandage. Delirious. Some pain. Few synechiæ. 15 days.	V. = 0.1.
6	Female. 74 England. Good.	2 years. Senile. Normal.	Oct. 14, 1898. O. S. Cocaine. Some cortical remains in pupil. Secondary operation on fifteenth day. No reaction. There was considerable entropion. 17 days.	V. = 0.1.
7	Male. 68 Ireland. Good.	1 year. Senile. Normal.	Oct. 23, 1897. O. D. Cocaine. Atropine. Clear round pupil. 18 days.	V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
8	Male. 55 Scotland. Good.	1 year. Head injury two years before. Senile? Normal.	Oct. 28, 1897. O. S. Cocaine. Clear round pupil. During healing re-astablishment of the anterior chamber was tardy and there was for some time a central haziness of the cornea. 32 days.	V. = 0.1.
9	Male. 72 Ireland. Very poor.	2 years. Senile. Normal.	Oct. 30, 1897. O. D. Cocaine. Atropine. Tardy re-establishment of ant. chamber. 7 days. Patient's low condition and albumen in urine caused him to be removed to his home.	V. = fingers.
10	Female. 60 Ireland. Good but little weak in mind.	7 months. Senile. Normal.	Nov. 2, 1897. O. D. Cocaine. Pupil round and clear (Atropine), except an opaque mass of cortical above. 12 days.	V. = 0.1.
11	Female. 29 Amer. Good.	1 year. Senile? No history of injury. Urine normal. Normal.	Nov. 10, 1897. O. D. Cocaine. One tenth per cent Eserine. Slight iritis about the fifth day. Atropine. Some capsule in pupil. 14 days.	V. = 0.3.
12	Male. 65 Amer. Good.	6 years. Senile. Normal.	Nov. 12, 1897. O. D. Cocaine. Lens quite hard. Clear pupil. Atropine. Secondary on 17th day. No reaction. 21 days.	V. = 0.1.
13	Male. 55 Amer. Good.	1 year. Senile. Normal.	Nov. 12, 1897. O. S. Cocaine. Pupil small, round. Small amount of cortical. Atropine. 12 days.	V. = 0.2. Nov. 24, 1897. V. = 0.6.
14	Female. 50 Amer. Good.	8 years. Senile. Normal.	Nov. 29, 1897. O. S. Cocaine. Atropine. Pain began about fifth day. Yellowish mass in pupillary area. Prolapse of iris into wound persists. Eye finally quieted down. Diabetes. 33 days.	Shadows.
15	Male. 38 Russia. Good.	1 year. Senile. Normal.	Nov. 30, 1897. O. S. Cocaine. Clear pupil. Atropine. Large round pupil, few webs. 18 days.	V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
16	Female. 45 Amer. Good.	6 years. Senile. Normal.	April 27, 1898. O. S. Cocaine. Nothing unusual about operation. Healing rapid. 15 days.	V. = 0.2.
17	Male. 70 Ireland. Good.	2 years. Senile. Normal.	May 21, 1898. O. S. Cocaine. Cut had to be enlarged. Behaved badly during next two days, was therefore sent home.	V. = 0.8.
18	Female. 70 Ireland. Good.	2 years. Senile. Normal.	June 9, 1898. O. S. Cocaine. Rapid healing. 14 days.	V. = 0.4.
19	Female. 89 Amer. Good.	3 years. Senile. Normal.	June 11, 1898. O. D. Cocaine. Large nucleus. Healing rapid. 12 days.	V. = 0.3.
20	Female. 46 Amer. Good.	6 years. Senile. Normal.	July 1, 1898. O. D. Cocaine. Nothing unusual about operation or healing. 11 days.	V. = 0.2.
21	Male. 62 W. Ind. Good.	2 years. Senile.	July 12, 1898. O. S. Cocaine. Smooth operation. Considerable cortical remains behind. 19 days.	V. =0.2.
22	Male. 76 Amer. Good.	1½ years. Senile. Normal.	July 23, 1898. O. S. Cocaine. Smooth operation. Healing rapid. 9 days.	V. = 0.1.
23	Female. 55 Amer. Good.	5 years. Senile. Normal.	July 26, 1898. O. S. Cocaine. Nothing unusual in operation or healing.	V. = 0.2.
24	Male. 60 Ireland. Good.	3 years. Senile. Normal.	Aug. 6, 1898. O. S. Cocaine. Behaved badly. Healing rapid. 12 days.	V. = 0.3.
25	Male. 44 Canada. Good.	9 years. Senile. Normal.	Aug. 9, 1898. O. S. Cocaine. Nothing unusual as to operation or healing. 11 days.	V. = 0.7.
26	Female. 51 Amer. Good.	5 years. Senile. Normal.	Aug. 13, 1898. O. D. Cocaine. Operation and healing without incident. 12 days.	V. = 0.3.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
27	Male. 43 Amer. Good.	2 years. Senile.	Aug. 18, 1898. O. D. Cocaine. Nothing unusual.	V. = 0.3.
28	Female. 73 Ireland. Good.	5 years. Senile. Normal.	Aug. 18, 1898. O. D. Cocaine. Considerable fluid cortical. Healing regular. 23 days.	V. = 0.2.
29	Male. 63 W.Indies	2 years. Senile. Normal.	Aug. 23, 1893. O. D. Cocaine. Lens capsule opaque. Fluid cortical. Healing attended with pain and inflammation. 21 days.	V. = 0.3.
30	Male. 53 Amer.	2 years. Senile. Normal.	Aug. 25, 1898. O. S. Cocaine. Operation without incident. Did well. 12 days.	V. = 0.2.

TRAUMATIC AND OTHER CATARACTS NOT SENILE.

1	Male. 42 Amer. Good.	15 years. Normal up to 6 months ago.	Sept. 13, 1897. O. D. Cocaine. Small section with iridectomy. Capsule very tough. Shrunken nucleus removed leaving small bit of capsule behind. Healing process accompanied with some pain. 24 days.	V. = 0.1.
2	Female. 41 Canada. Good.	1 year. Struck by a door. Normal.	Oct. 2, 1897. O. D. Cocaine. Incision made with keratome. Lens substance quite soft. Atropine. 11 days.	V. = 0.4.
3	Male. 20 Amer. Good.	15 years. Traumatic. Normal.	Oct. 20, 1897. O. S. Cocaine. Discission. Atropine. Cold compresses. Boric acid lotion. Pain. Fragments, probably cholesterine, noticed in anterior chamber. No history of injury except a broken collar bone when five years old. 8 days.	V. = fingers.
4	Male. 7 Amer. Good.	Congenital. Normal.	Oct. 25, 1897. O. S. Cocaine. Discission. Atropine. 4 days. There were three subsequent discissions at monthly intervals.	V. = 0.1.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
5	Female. 1½ Amer. Good.	Congenital. Normal.	Oct. 29, 1897. O. S. Cocaine. Discission. Atropine. Considerable swelling of cortical. 31 days.	V. = fingers.
6	Male. 8 Amer. Good.	Congenital. Zonular. Normal.	Dec. 6, 1897. O. S. Cocaine. Discission. Numerous niders. Effect of operation so slight it was followed by two other operations at short intervals. 25 days.	V. = 0.1.
7	Male. 41 England. Good.	19 days. Traumatic. Normal.	Dec. 31, 1897. O. D. Cocaine. Section 4 mil. from up margin of cornea. Some lens substance pressed out, then escape of vitreous from contraction of ocular muscles. Atropine. Healing without especial reaction. 15 days.	V. = P. L.
8	Male. 57 Canada. Good.	Traumatic. 2 months. Complicated. Iris presenting snipped off, and attempt at removal of lens. Vitreous.	Jan. 21, 1898. O. D. Cocaine. Incision through cornea and periphery of iris. Lens removed by the wire loop. Some hemorrhage. Pupil contains mass of cortical tinged with blood. Tension diminished. Pain, swelling of lids, injection.	V. = 0.1.
9	Female. 4 Amer. Good.	Congenital. Normal.	Feb. 11, 1898. O. S. Discission. Cocaine. March 9, 1898, second operation. March 30, 1898, third operation.	V. = P. L.
10	Male. 49 Ireland. Good.	Traumatic. 6 months' duration.	Feb. 25, 1898. O. D. Cocaine. No firm nucleus. Some soft cortical left behind as vitreous presented. Healing without incident. 15 days.	V. = 0.2.
11	Male. 34 Ireland. Good.	Traumatic. Normal.	Feb. 26, 1898. O. S. Cocaine. Discission. March 17, 1898. O. S. Cocaine. Discission. March 30, 1898. O. S. Cocaine. Discission and detached synechiæ with knife needle. April 21. Discission. Cocaine. Atropine. No reaction. 54 days.	V. = P. L.
12	Male 13 Amer. Good.	Traumatic. 3½ months. Normal.	April 27, 1898. O. D. Cocaine. Lens substance removed by suction. No reaction. 26 days.	

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
13	Male. 29 Italy. Goods.	Traumatic. 3½ months. Normal.	April 27, 1898. O. S. Cocaine. Discission. No especial reaction. Absorption going on slowly. 15 days.	
14	Female. 37 Amer. Good.	10 years. Normal.	May 11, 1898. O. D. Cocaine. Extraction with iridectomy. Very unruly. Tension reduced. Loss of vitreous. Healing delayed by iritis. 20 days.	V. = fingers.
15	Male. 47 Finland. Good.	Traumatic. 6 months.	May 19, 1898. O. S. Cocaine. Simple extraction with buttonhole. Milky cortical. Healing rapid. 18 days.	V. = 0.2.
16	Male. 27 Scotland. Good.	Traumatic. 1 year. Normal.	May 25, 1898. O. S. Cocaine. P. B. removed by an iridectomy, then lens taken out. 21 days.	V. = 0.4.
17	Male. 5½ Amer. Good.	Congenital. Normal.	June 15, 1898. O. D. Cocaine. Discission. No reaction. 15 days. June 22, 1898. Discission.	
18	Female. 2½ Amer. Good.	Congenital. Normal.	June 15, 1898. O. S. Cocaine. Discission. No reaction. 15 days. July 10, 1898. Discission.	
19	Male. 29 Italy. Good.	Traumatic. Normal.	July 6, 1898. O. S. Piece of steel removed from lens with forceps, followed by suction. Kerato-iritis and phthisis bulbi. 24 days.	V. = nil.
20	Male. 32 Amer. Good.	Traumatic. 8 years. Normal.	July 22, 1898. O. S. Cocaine. Discission. 5 days. July 29, 1898. Discission. Aug. 3, 1898. Capsules removed by forceps.	V. = 0.2.
21	Male. 11 Amer. Good.	Congenital. Normal.	July 26, 1898. O. D. Cocaine. Discission. 4 days.	
22	Female. 45 Amer. Good.	Secondary. Poor P. L. No projection.	Aug. 4, 1898. O. D. Cocaine. Discission. Good clear pupil.	V. = P. L.

No.	Sex. Age. Nation. Health.	Duration of Cataract. Functional Examination.	Operation. Anæsthetic. Healing Process. Duration of Treatment.	Vision.
23	Male. 31 Sweden. Good.	Traumatic. Normal.	Aug. 16, 1898. O. D. Cocaine. Suction. Healed quickly. 14 days.	V. = nil.
24	Male. 11 Amer. Good.	Congenital. Normal.	Aug. 24, 1898. O. D. Cocaine. Discission. Sept. 12. Discission. 23 days.	
25	Female. 9 Amer. Good,	Congenital. Normal.	Aug. 29, 1898. O. S. Cocaine. Discission. Did well. 10 days.	

REPORT OF OPHTHALMIC SURGEONS.

DISEASES HOUSE-PATIENTS.

Lids.

Abscess	1
Blepharitis	7
Chalazia	2
Cysts	2
Dermatitis	1
Ectropion	4
Entropion	22
Epithelioma	5
	44

Lachrymal Apparatus.

Abscess	11
Dacryo-cystitis	2
Lachrymal Obstruction	5
Mucocele	1
	19

Lachrymal Gland.

Dacryo-adenitis	1
Adenoma	1
	2

Conjunctiva.

Conjunctivitis, Acute	3
Gonorrhœal	82
Granular	32
with Pannus	22
Muco-purulent	13
Phlyctenular	11
Pterygium	6
Tumor-sarcoma	1
	170

Cornea.

Abrasion	2
Abscess	11
Burn	18
Cuts	16
Foreign Body	1
Keratitis	
Interstitial	10
Phlyctenular	47
Simple	30
Superficial	3
Traumatic	1
Ulcerative	4
Vascular	5
Herpes	4
Kerato-iritis	2
Kerato-scleritis	5
Leucoma, partial	11
Total	2
Inflamed	3
Staphyloma	17
Ulcers	58
Perforating	13
Specific	1
Superficial	7
Traumatic	1
with Hypopyon	26
Dendritic	2
Wounds	35
Tumor	1
	336

Anterior Chamber.

Hyphaemia	14
Foreign Body	2
	16

Sclera.

Episcleritis	2
Wound of Ciliary Region	19
Wound of Sclera	10
	31

Iris and Ciliary Body.

Iritis, Simple	26
Rheumatic	11
Serous	3
Specific	5
Hypopyon	4
Traumatic	4
Chronic	2
Irido-cyclitis	8
Prolapsed Iris	2
Sympathetic Ophthalmia	1
Threatened	2
Gumma of Iris	3
Gumma of Ciliary Body	1
	72

Lens.

Cataract, Capsular	22
Congenital	31
Incipient	9
Lamellar	2
Mature	131
Traumatic	33
Foreign Body	5
Dislocated Lens	8
	241

Optic Nerve.

Optic Atrophy	3
Optic Neuritis	1
Amblyopia Ex Abusa	1
	5

Choroid.

Choroiditis	5
Glaucoma, Acute	9
Secondary	10
Simplex	10
	34

Vitreous.

Foreign Body	10
Hæmorrhage	4
Opacities	3
	17

Retina.

Retinitis Hæmorrhagie	3
Oedema	2
Separation	8
	13

Globe and Orbit.

Cellulitis of Orbit	1
Disorganized Globe	20
Panophthalmitis	9
Intra Ocular Tumor	2
Exophthalmus	4
Phthisis Bulbi	19
Tumor of Orbit	2
Sarcoma of Orbit	2
Cicatricial Bands of Orbit	4
Abscess of Frontal sinus	3
Necrosis of Frontal Bone	1
	67

General Injuries.

Injuries	7
Blows and Cuts	2
	9

Refraction.

Hypermetropia	1
Hypermetropic Astigmatism	2
Progressive Myopia	2
	5

Muscular Affections and Neuroses.

Diplopia	1
Paralysis of 3, 4, 6 and 7 Nerves	1
Photophobia	2
Strabismus, Convergent	27
Divergent	5
	36

Miscellaneous.

No disease	2
Entered by mistake	1
	3
	1,120

OPHTHALMIC OPERATIONS.

HOUSE-PATIENTS.

Lids.

Abscess	4
Canthoplasty	2
Chalazia	74
Cyst of Brow and Lid	3
Ectropion	1
Entropion and Trichiasis	4
Greene's operation	32
Electrolysis	19
Foreign Body removed	4
Ptosis	5
Tumors excised	12
Wounds sutured	19
Xanthelasma	4
	179

Conjunctiva.

Plastic Operation	1
Pterygium	34
Symblepharon	8
Tumors excised	6
	49

Cornea.

Curettage	3
Foreign Body removed	18
Saemish Operation	7
Staphyloma Anterior	1
Tattoed	16
	45

Iris.

Attempted Iridectomy	5
Iridectomy for Artificial Pupil	15
Glaucoma	11
Preliminary to Cataract Operation	1
Prolapsed Iris excised	12
	44

Muscles.

Advancement, External Rectus	20
Internal Rectus	2
Tenotomy External Rectus	7
Internal Rectus	53
Superior Rectus	1
	84

Lens.

Capsule operations	57
Cataract operations:	
Modified Graefe	37
Simple	58
With Buttonhole of Iris	29
Suction	4
Linear incision	1
Incisions	56
	242

Enucleations.

For Disorganized Globe	59
Glaucoma	2
Phthisis-Bulbi	9
Injury	11
Irido-cyclitis	1
Staphyloma	3
Sympathetic Inflammation	1
Threatened Sympathetic	1
Tumor of Globe	2
Panophthalmitis	3
	92

MISCELLANEOUS.

Abscess Lachrymal duct	8
Abscission of Vitreous	8
Extraction of Lens dislocated under conjunctiva	1
Evisceration	3
Foreign Body	1
Magnet	1
Attempted Magnet	2
Frontal Sinus	3
Mules Operation	3
New growth of Orbit Exenteration	3
Sclerotomy	1
Wound of Sclera	2
Other Operations	20
	56
Total	791

MINOR OPERATIONS.

OPHTHALMIC OUT-PATIENT DEPARTMENT.

Abscess lid, incised	21
" lachrymal, "	26
Chalazia "	83
Foreign body, cornea removed	1,146
" " conjunctiva "	22
Foreign body, lid removed	245
Hordeolum, lid incised	21
Miscellaneous	131
	1,695

DISEASES OF OUT-PATIENTS.

MINOR OPHERATIONS OPTHALMIC OUT-PATIENT DEP'T.

Lids.

Abscess	36
Ankyloblepharon	2
Blepharitis	706
Blepharo-adenitis	6
Burns	25
Chalazion	387
Cysts	40
Dermatitis	19
Ecchymosis	49
Ectropion	30
Eczema	28
Epicanthus	6
Entropion	26
Emphysema	1
Epithelioma	6
Foreign Body	263
Growth	9
Herpes Zoster	6
Hordeolum	99
Hypertrophy	1
Hærmatoma	1
Lagophthalmus	5
Lippitudo	8
Lime Concretion	1
Milium	5
Molluscum Contagiosum	3
Naevus	4
Oedema	51
Papilloma	5
Phthiriasis	6
Ptosis	45
Pustules	3
Symblepharon	4
Trichiasis	52
Distichiasis	3
Tumors	10
Ulcers	2
Verruca	2
Wound	40
Xanthelasma	2
	1,897

Lachrymal Apparatus.

Abscess	67
Catarrh of Sac	65
Epiphora	181
Lachrymal Obstruction	140
Fistula	6
	459

Conjunctiva.

Burns	20
Conjunctivitis, Simple	1,600
Catarrhal Acute	302
Chronic	536
Diphtheritic	2
Follicular	95
Granular	186
with Pannus	37
Gonorrhoeal	40
Muco-purulent	30
Neonatorum	65
Phlyctenular	236
Strumous	8
Traumatic	109
Cuts	26
Cysts	3
Ecchymosis	131
Foreign Body	32
Growth	3
Hyperæmia	6
Oedema	10
Pinguecula	38
Pterygium	94
Tumors	2
	3,611

Cornea and Sclera.

Abrasion	160
Abscess	9
with Hypopyon	2
Burns	29
Cystoid Cicatrix	1
Episcleritis	53
Foreign Body, Cornea	1,219
Sclera	4
Growth of Cornea	1
Sclera	1
Herpes Cornea	5
Infiltration Cornea	120
Keratitis Bullous	1
Interstitial	31
Malarial	1
Marginal	17
Phlyctenular	289
Punctata Superficialis	1
Dentritic	1
Simple	363
Traumatic	22
Vascular	23
Kerato-conus	7
Kerato-iritis	21
Leucoma	167
Adherens	17
Inflamed	21
Megalo Cornea	1
Nebulæ	179
Opacities	145
Rupture of Cornea	1
Sclera	7
Sclerosed Cornea	1
Scleritis	17
Sclero-keratitis	20
Staphyloma of Cornea	20
Sclera	6
Ulcer of Cornea	359
with Hypopyon	14
Serpiginous	2
Traumatic	37
Vascular	6
Wound of Ciliary Region	2
Cornea	98
Sclera	12
	3,513

Iris Ciliary Body.

Atrophy Iris	4
Bombe Iris	4
Coloboma Iris	4
Ciliary Injection	26
Neuralgia	5
Gumma Iris	8
Irido-cyclitis	7
Dialysis	12
Donesis	30
Iritis with Hypopyon	3
Rheumatic	200
Specific	41
Traumatic	13
Mydriasis	20
Artificial	44
Paralysis of Iris	2
Prolapse of Iris	23
Occluded Pupil	33
Excluded Pupil	1
Synechiæ Anterior	29
Posterior	38
Hyphæma	22
	569

Lens.

Cataract Capsular	2
Congenital	28
Cretaceous	6
Incipient	298
Lamellar	5
Mature	137
Post. Polar	6
Traumatic	37
Dislocated Lens	29
Foreign Body in Lens	3
Opacities of Lens	125
	676

Vitreous.

Cholesterin	1
Foreign Body	1
Hæmorrhage	8
Hyalitis	5
Muscae Volitantes	7
Opacities	108

Prolapse of Vitreous	1
Webs	26
Persistent Hyaloid Artery	1
	158

Optic Nerve.

Atrophy	58
Neuritis	23
Neuritis Retro-bulbar	1
Papillitis	3
	85

Retina.

Changes in Macula	23
Embolism Central Artery	3
Hæmorrhage in Macula	4
Neuro-Retinitis	10
Oedema Macula	1
Oedema Retina	4
Pigmentary Degen. Retinæ	5
Retinitis	26
Albuminuric	2
Haemorrhagic	15
Punctata	1
Proliferating	1
Separation Retina	49
	144

Choroid.

Albinism	3
Atrophy	21
Choroiditis	78
Metastatic Purulent	2
Glaucoma	62
Hæmorrhage in Choroid	1
Retino-choroiditis	16
Sclerotico Choroiditis Posterior,	2
Staphyloma Posterior	23
Coloboma Choroid	1
	209

Affections of Percipient Apparatus.

Amblyopia	39
(Alcohol, Tobacco, etc.)	25
Hemianopsia	1
Color blindness	1
Nyctalopia	1
Scotoma	14
	81

Muscular Affections and Neuroses.

Blepharospasm	18
Diplopia	31
Exophthalmic Goitre	2
Esophoria	24
Exophoria	7
Hyperphoria	15
Locomotor Ataxia	2
Neurasthenia	3
Nictitation	7
Nystagmus	29
Paralysis Facial	17
Fourth	1
Sixth	2
Third	19
Seventh	3
Ciliary	1
Rectus Muscles	31
Ophthalmoplegia Externa	1
Facial Neuralgia	1
Photophobia	6
Strabismus, alternating	19
Convergent	271
Divergent	103
Transient	10
Supra-Orbital Neuralgia	17
	640

Globe and Orbit.

Enophthalmus	11
Cellulitis	3
Cicatrix Socket	1
Disorganized Globe	20
Exophthalmus	6
Foreign Body, Globe	8
Frontal Sinus	1
Irritable Orbit	5
Intra-ocular Tumor	1
Microphthalmus	4

Panophthalmitis	4
Phthisis Bulbi	6
Rupture, Globe	2
Tumor, Orbit	1
Atrophy, Globe	3
Wound of Orbit	1
	77

GENERAL INJURIES.

Blows and Cuts	237
Burns	57
	294

ACCOMMODATION AND REFRACTION.

Asthenopia	36
Astigmatism	1,114
Irregular	13
Mixed	243
Hypermetropia	2,880
Myopia	704
Paralysis of Accommodation	6
Presbyopia	1.042
Emmetropia	500
	6,538

MISCELLANEOUS.

No disease	62
Referred to other Institutions	37
Eloped	742
Unfit	129
Entered by mistake	49
Refused treatment	15
	1,034

OTHER DISEASES.

Anæmia	6
Angioma	1
Arterio-sclerosis	2
Nephritis	1
Ozæna	2
Erythema-nodosum	1
	13

SUMMARY OF DISEASES.

Lids	1,997
Lachrymal Apparatus	459
Conjunctiva	3,611
Cornea and Sclera	3,513
Iris Ciliary Body	569
Lens	676
Vitreous	158
Optic Nerve	85
Retina	144
Choroid	209
Affections of Percipient Apparatus	81
Muscular Affections and Neuroses	640
Globe and Orbit	77
General Injuries	294
Accommodation and Refraction	6,538
Miscellaneous	1,034
Other Diseases	13
	20,098

REPORT OF AURAL SURGEONS.

The Board of Aural Surgeons respectfully submits the following report of their work for the year ending September 30, 1898.

During the year, in addition to a very large number of less important operations, one hundred and sixteen Mastoid operations have been performed, a tabulated report of which has been compiled by the Aural House Officer, Dr. A. M. Amadon.

A glance at the results of these operations shows what valuable work the Institution is doing, both by saving life and relieving suffering, and also by enabling so large a number of patients to return to their ordinary occupations, instead of becoming an expense and burden on the community to which they belong.

With the increased space and improved facilities which have been so generously provided in the new building, it is our hope and expectation that the usefulness of the Infirmary will steadily increase.

As in previous years, medical students and practitioners have had an opportunity of benefiting by the great clinical advantages which the Infirmary presents.

The thanks of the surgeons are tendered to the Superintendent, Clinical Assistants, House-Officers, Nurses, and Matron, for the able and efficient manner in which they have discharged their respective duties.

HENRY LEE MORSE, M. D.,
For the Board of Aural Surgeons.

October 17, 1898.

DISEASES OF HOUSE PATIENTS.

I. DISEASES OF THE EXTERNAL EAR.

a. *Inflammations.*

	R.	B.	L.
Trauma	0	0	1
Intertrigo	1	0	0

b. *Deformities.*

Microtia	0	0	1

c. *Neoplasms.*

Cyst of lobe	0	0	1
Oedema	1	0	0
Epithelioma	3	0	0

II. MEATUS.

a. *Inflammations.*

Acute diffuse inflammation	0	0	1
Acute circumscribed inflammation	1	0	4
Foreign body by displacement of auricle	1	0	0

b. *Deformities.*

Atresia acquired	0	0	1
Microtia	0	0	1

III. DISEASES OF THE MIDDLE EAR.

Chronic secretory catarrhal inflammation	1	2	0
Adhesive catarrhal inflammation, secretory	1	1	1

Acute Inflammation.

Simple	6	4	5
With mastoiditis	5	0	3
With mastoiditis and facial paralysis	0	0	1

Acute Suppurative Inflammation.

Simple	16	8	7
With diffuse inflammation of external canal	0	0	1
With mastoiditis	20	0	22
With subperiosteal abscess	2	0	2
With supra aural abscess	2	0	0
With caries of mastoid	9	1	8

Chronic Suppurative Inflammation.

	R.	B.	L.
Simple	9	3	5
With diffuse inflammation of external canal	0	0	1
With caries of the typmpanum	1	2	2
With granulations of the tympanum	1	1	2
With polypus in the tympanum	0	1	3
With polypus in the meatus	0	0	1
With polypus in the tympanum and mastoiditis	0	0	1
With carious ossicles	2	0	1
With cholesteatome	0	0	2
With cholesteatome and caries of mastoid	1	0	1
With mastoiditis	9	0	9
With caries of mastoid	1	0	6
With caries of mastoid and meningitis	1	0	1
With caries of temporal bone	1	0	0
With facial paralysis	0	0	1
With adenoids	0	2	0

Effect of Chronic Suppurative Inflammation.

Simple	1	0	1
With caries of meatus	1	0	0
With caries of mastoid	1	0	0
With abscess of neck	0	0	1

IV. DISEASES OF THE LABYRINTH.

Labyrinthitis	3	4	0

MISCELLANEOUS.

Adenoids	0	23	0
Adenoids and tonsils	0	6	0
Deflected septum straightened	0	3	0
Neuritis	0	0	1

DISEASES OF OUT-PATIENTS.

I. DISEASES OF THE EXTERNAL EAR.

1. Auricle.

a. *Congestions.*

	R.	B.	L.
Frozen ear	0	0	1

b. *Inflammations.*

Abscess	1	0	3
Abscess of tragus	1	0	4
Dermatitis	1	0	0
Eczema	9	2	7
Herpes zoster	0	0	1
Intertrigo	4	1	1
Hæmatoma traumatic	5	0	1
Perichondritis	1	0	1
Syphilitic gumma	1	0	1

c. *Deformities.*

Microtia	4	1	0
Congenital fistula of auricle	0	0	1
Polyotia	0	1	0
Supernumerary tragus	0	1	0

d. *Neoplasms.*

Angioma	0	0	1
Cyst of auricle	2	0	2
Cyst of lobe	2	0	1
Epithelioma	1	0	0
Fibroma	1	0	1
Oedema	0	0	1

e. *Trauma.*

Auricle	1	0	1
Lobe	1	0	0

2. Meatus.

Cerumen	230	600	297
Trauma	0	1	0
Abscess	8	0	10
Eczema	19	26	12
Acute diffuse inflammation	35	17	24

	R.	B.	L
Chronic diffuse inflammation	0	6	5
Parasitic inflammation	1	1	1
Pruritus	5	3	0
Foreign body (animate)	7	0	8
Foreign body (inanimate)	16	2	15
Exostosis	2	0	3

II. DISEASES OF THE DRUM MEMBRANE.

Trauma direct	8	0	11
Trauma indirect	2	0	0
Myringitis	1	0	1

III. DISEASES OF THE MIDDLE EAR.

a. *Acute Secretory Catarrhal Inflammation.*

Mucous	56	106	60
With adenoids	3	65	0
Serous	23	27	26
Serous, with adenoids	1	11	0

Chronic Secretory Catarrhal Inflammation.

With adenoids	2	45	1
Mucous	116	547	114
Serous	0	3	0
Serous, with adenoids	2	51	1
With labyrinthine disease	0	2	0

b. *Adhesive Catarrhal Inflammation.*

Secretory	25	178	33
Secretory, with labyrinthine disease	0	9	0
Secretory, with facial paralysis	1	0	1
Insidious	10	35	5
Insidious, with labyrinthine disease	0	0	1

c. *Acute Inflammation.*

Simple	185	59	165
With adenoids	0	6	1
With mastoiditis	2	1	6
With abscess of tragus	0	0	1
With post-aural abscess	1	0	0

d. *Acute Suppurative Inflammation.*

Simple	183	46	193
With caries of mastoid	3	0	2
With mastoiditis	11	0	13

	R.	B.	L.
With post-aural abscess	2	0	3
With mastoid fistula	0	0	1
With facial paralysis	0	0	1
With abscess of neck	1	0	0
With polypus in the meatus	1	0	0
With adenoids	4	1	2
With mastoid abscess	0	0	1
With cellulitis of neck	1	0	1

e. *Chronic Suppurative Inflammation.*

Simple	260	122	261
With caries of mastoid	1	0	4
With caries of the ossicles	2	0	6
With atresia of meatus	0	0	2
With caries of mastoid and abscess of neck	0	0	1
With polypus in the tympanum	39	4	27
With granulations in the tympanum	27	5	30
With granulations in the tympanum and facial paralysis	0	0	2
With cholesteatome	0	0	1
With adenoids	0	0	1
With caries in the meatus	0	0	1
With polypus in the meatns	0	0	1
With granulations in the meatus	2	0	2
With post-aural abscess	5	0	2
With sub-periosteal abscess	3	0	1
With granulations in tympanum and caries of ossicles	2	0	0
With sarcoma of temporal bone	1	0	0
Effect of suppurative inflammation	125	106	132
Effect of suppurative inflammation with granulations in the meatus	1	0	1
Effect of suppurative inflammation with adenoids	1	3	1
Effect of suppurative inflammation with atresia of meatus	3	1	1

4. Eustachian Tube.

Catarrhal inflammation of the eustachian tube	0	7	0

5. Neuroses of Middle Ear.

Otalgia from teeth	50	18	42
Otalgia from nose	1	0	0
Otalgia from pharynx	0	2	0

IV. DISEASES OF THE LABYRINTH.

Labyrinthitis	2	8	3
Anæmia	0	3	0
Cochlitis	0	1	0

	R.	B.	L.
Concussion	1	0	3
Hæmorrhage	0	1	0
Syphilis	1	0	0
Hyperæmia	0	0	1

MISCELLANEOUS.

Adenoids	0	50	0
Hypertrophic rhinitis	0	45	0
Atrophic rhinitis	0	28	0
Deaf mutism	0	20	0
Panotitis	3	1	4
Auditory nerve	1	1	1
Eloped	0	26	0
No diagnosis	0	10	0
No ear disease	0	146	0
Unfit patients	0	174	0

AURAL OPERATIONS.

PART. DISEASE. OPERATION.			
1. Auricle.	R.	B.	L.
Angioma removed	0	0	1
Cyst removed	1	0	1
Cyst of lobe removed	1	0	0
Abscess of tragus incised	0	0	4
Abscess of lobe incised	0	0	1
Epithelioma removed	1	0	0
Fissure of lobe stitched	0	0	1
Hæmatoma incised	2	0	2
Microtia	1	0	0
Sarcoma excised	0	0	1
Amputation of portion of auricle	0	0	1
2. Meatus.			
Atresia	0	0	1
Abscess incised	5	0	6
Circumscribed abscess incised	15	0	22
Exostosis removed	0	0	2
Polypus removed	1	0	0
Foreign body removed	4	0	2
Foreign body removed by displacement of auricle	1	0	0
3. Tympanum.			
Drum membrane-paracentesis	214	35	189
Carious malleus removed	4	0	3
Carious malleus and stapes removed	1	0	2
Carious ossicles removed	1	0	0
Carious incus removed	2	0	0
Carious malleus and incus removed	1	0	2
Granulations in tympanum removed	4	0	6
Necrosis of tympanum removed	1	0	0
Polypus removed	53	3	33
Mobilization of stapes	1	0	0
4. Nose and Pharynx.			
Nose, spur removed	8	0	3
Nose, polypus removed	11	9	1

	R.	B.	L.
Deflected septum straightened	0	4	0
Nasopharynx, adenoids removed	0	131	0
Nasopharynx, adenoids and tonsils removed	0	55	0

5.

Abscess, post-aural, incised	4	0	4
Abscess, sub-periosteal, incised	1	0	0
Abscess, peri-auricular, incised	1	0	0
Abscess, infra-aural, incised	1	0	1
Mastoid operations (see special report)	61	0	55

MISCELLANEOUS.

Various operation	5	1	6

STATISTICS, OCT. 1, 1897, TO OCT. 1, 1898.

EAR PATIENTS.

Males.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Total
Births to 3 years.....	9	12	13	14	8	25	17	21	11	18	13	8	169
3 yrs. to 15 "	39	39	37	34	43	56	54	47	40	58	69	63	579
15 " " 25 "	35	47	38	39	37	67	40	43	45	48	90	70	599
25 " " 35 "	41	45	42	47	49	66	65	52	58	71	100	60	696
35 " " 45 "	29	29	30	35	22	46	32	42	48	43	41	38	435
45 " " 55 "	15	15	25	27	18	34	18	20	27	23	29	25	276
55 " " 65 "	14	13	10	14	9	31	16	16	20	20	19	18	200
65 " " 75 "	5	8	4	2	2	10	7	4	5	8	7	8	70
75 " " 85 "	0	2	3	0	2	1	0	1	0	1	3	1	14
85 " " 95 "	0	0	0	0	0	1	0	0	0	0	0	0	1
													3,039

Females.

Births to 3 years.. ..	14	18	15	12	18	25	16	17	11	13	12	13	184
3 yrs. to 15 "	43	44	42	42	39	51	60	51	46	38	67	39	562
15 " " 25 "	27	38	39	38	31	47	47	39	55	53	65	40	519
25 " " 35 "	46	33	32	41	30	43	26	35	43	46	54	46	475
35 " " 45 "	23	21	18	36	13	30	16	26	20	31	40	26	300
45 " " 55 "	26	9	7	28	8	27	8	10	15	13	26	28	205
55 " " 65 "	8	7	10	13	6	12	11	17	2	15	10	3	114
65 " " 75 " . ..	6	3	2	1	2	3	3	2	3	4	6	3	38
75 " " 85 "	0	0	0	0	0	2	1	1	0	0	2	1	7
85 " " 95 "	0	0	0	0	0	0	0	0	0	0	0	0	0
													2,404

ANALYSIS OF MASTOID OPERATIONS.

No.	x.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
1	F.	73	L.	6 weeks.	5 weeks.	Pneumatic, pus, grans., caries.		None.	26 days.	62 days.	Well.	Convalescence uneventful.
2	M.	26	L.	2 weeks.	10 days.	Pneumatic, pus, grans., caries.	Diplococcus. Staphylococcus. Streptococcus.	Delirious, Stupor.	8 days.		Dead.	Abundant granulations in mastoid. Fistula through tegmen mastoideœ. Violent headaches, vomiting and temp. 103°–105° in following two days, and foul wound. Secondary operation two days later. Sinus and dura exposed posteriorly and found healthy. No improvement in general condition. Patient delirious at times and in great pain. Died five days later. Autopsy showed arachnoid inflamed and containing pus foci, but no evident communication with mastoid.
3	F.	2	L.	6 weeks.	2 weeks.	Diplöetic, pus, grans., caries.	Staphylococcus.	None.	38 days.		Well.	Measles six months ago. Fistula behind auricle leading into mastoid; sub-periosteal pus.

4	M.	10	R.	2 weeks	2 weeks.	Diplöetic, pus, grans., caries.	Staphylococcus. Streptococcus.	None.	29 days.		Well.	Acute ear following sea bathing. Sub-periosteal pus. Perforation through cortex. Lateral sinus bare over an area ½ x ¾ inch.
5	M.	13	L.	2 years.	2 years.	Pneumatic, pus, grans., caries.	Bacillus Fœtidus.	None.	66 days.	7 days.	Well.	Typhoid fever two years ago with acute ear. Old fistula to surface over mastoid. Pus and cholesteatoma in mastoid, antrum and attic. Sinus bare over an area ⅔ x ½ inch.
6	M.	28	L.	6 weeks.	2 weeks.	Pneumatic, grans.	Staphylococcus. Streptococcus.	None.	38 days.		Well.	Convale eventful.
7	F.	22	R.	10 days.	8 days.	Pneumatic, grans.	Streptococcus.	None.	20 days.	16 days.	Well.	Convalescence uneventful.
8	M.	4	R.	2 years.	2 years.	Diplöetic, caries of attic.	No growth.	None.	52 days.	9 days.	Well.	Posterior wall of canal removed and antrum opened to remove granulations and caries from tympanum and antrum.
9	F.	35	R.	12 days.	12 days.	Pneumatic, pus, grans.	Staphylococcus.	None.	4 days.	72 days.	Well.	Convalescence uneventful.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
10	F.	17	L.			Diplöetic, caries.		None.	83 days.	92 days.	Well.	Obstinate suppuration of long standing with cholesteatoma. Frequent exacerbations in last six months. Tympano-mastoid exenteration. Dura found bare over aditus $\frac{1}{3}$ x $\frac{1}{6}$ inches in area. Much dizziness and nausea after operation, disappearing in one week.
11	F.	27	L.	6 weeks.	5 weeks.	Pneumatic, pus, grans., caries.	Streptococcus. Staphylococcus.	None.	48 days.		Well.	Mastoiditis five weeks before, yielded to cold coil. Troublesome otitis media ever since with recent tenderness in digastric fossa. Large cell found in posterior part of mastoid filled with pus and granulations. Convalescence uneventful.
12	F.	24	R.	2 weeks.	2 weeks.	Diplöetic, pus.	Streptococcus.	None.	36 days.	9 days.	Well.	Convalescence uneventful.
13	F.	25	R.	years.	years.	Diplöetic, pus, grans., caries.		None.	28 days.		Well.	Third operation. See No. 75. Sinus at site of opening of mastoid with granulations and pus and œdema around carious bone in wound, and dura bare.

14	F.	25	R.	5 weeks.	4 weeks.	Pneumatic, pus, grans., caries.	Diplococcus. Pneumoniæ.	None.	27 days.		Well.	Acute mastoiditis two weeks ago yielded to cold coil. Exacerbation three days old. Fistula through posterior wall of bony meatus and subperiosteal pus. Lateral sinus opened.
15	M.	29	L.	5 weeks.	3 weeks.	Diplöetic, grans.	Streptococcus.	None.	17 days.		Well.	Convalescence uneventful.
16	F.	7	L.	3 years.	2 weeks.	Sclerosed, caries.	Staphylococcus. Streptococcus.	None.	63 days.	120 days.	Well.	Otitis media from measles and whooping cough three years ago. Severe pain began two days ago and temperature at admission is 103°. Neck stiff and tender. P. M. temperature 105°. Caries in antrum and aditus. Tympano mastoid exenteration. Evening temperature next five days 103°; morning temperature nearly normal. Daily dressings. Neck stiff three days. Exuberant granulations in tympanum and wound. Removed under ether one month later. Uneventful convalescence after.

No.	Sex.	Age.	Ear.	Durat on of Tym. Disturbance.	Duration of Mas-to d Disturbance	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Sub-sequent Treat-ment in Hospital.	Duration of Sub-sequent Treat-ment in O.P.D.	Result.	Remarks.
17	M.	63	L.	4 weeks.	3 weeks.	Pneumatic, pus, grans.	Staphyl-ococcus. Diplococcus. Pneumoniæ.	None.	22 days.	16 days.	Well.	Convalescence uneventful.
18	F.	21	R.	3 weeks.	3 weeks.	Pneumatic, pus, grans.	Staphyl-ococcus.	None.	See No. 51.			Double mastoiditis. See No. 20 and No. 51. Perforation through tip but no pus in neck. Six weeks later wound, after apparent healing, broke down and bone failed to cover in spite of all treatment. Secondary operation after ten weeks.
19	M.	6	R.	4 weeks.	1 week.	Pneumatic, pus, grans., caries		None.	24 days.	42 days.	Well.	Fistula over antrum, sub-periosteal pus. Convalescence uneventful.
20	F.	21	L.	3 weeks.	3 weeks.	Pneumatic, pus, grans.	Staphyl-ococcus.	None.	37 days.		Well.	Condition found in mastoid precisely as in No. 18. Uneventful convalescence.
21	F.	45	L.	6 weeks.	2 weeks.	Diplöetic, grans.		None.	See No. 43.			See No. 43. Slow convalescence with secondary operation nine weeks later.

22	M.	43	R.	6 mos.	1 month.	Pneumatic, sclerosed, pus, grans.		None.	69 days.		Well.	Infiltration of tissues of neck below mastoid. Antrum contained pus and granulations. Large cell in tip and in operation dura exposed posteriorly. Pus in neck three weeks later. Tympanum and neck cleared very slowly.
23	M.	52	L.	4 months.	2 weeks.	Pneumatic, pus, grans., caries.	Staphylococcus.	None.	16 days.	10 days.	Well.	Meatus closed by swelling. Fistula in anterior wall of mastoid. Subperiosteal pus. Dura exposed posteriorly and superiorly, area ½ inch in diameter.
24	M.	4	R.	2 months.	2 months.	Diplöetic, caries.			56 days.		Dead.	Sarcoma of temporal bone. Slight paresis of right side of face. Pulse and respiration slow. Patient drowsy. Tympanum filled with granulations. Petrous bone entirely carious. Dura exposed extensively posteriorly. Malignant growth returned with great vigor in two weeks. Died at home four months after operation.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
25	M	33	L.	10 months.	10 months.	Pneumatic, pus, grans., caries.			See No. 47.			Patient tubercular and alcoholic. Facial paralysis for two weeks before entry. Posterior wall of meatus carious. Several sequestra removed. Dura exposed posteriorly over an area ⅔ inch in diameter. Secondary operation ten days later. See No. 47.
26	F.	34	R.	6 weeks.	1 week.	Pneumatic, pus, grans.	Staphylococcus.	None.	19 days.	27 days.	Well.	Convalescence uninterrupted.
27	M.	38	L.	4 weeks.	2 weeks.	Pneumatic, pus, grans.	Staphylococcus.	None.	22 days.		Well.	Dura exposed superiorly ¼ x ⅓ inch. Convalescence uninterrupted.
28	F.	7/12	R.	4 months.	2 months.	Diplöetic, pus, grans.	Staphylococcus.	None.	62 days.	40 days.	Well.	Tubercular child. Facial paralysis of some weeks' duration. Much caries in tympanum and mastoid. Dura exposed posteriorly and superiorly. Convalescence slow.

29	M.	50	L.	3 weeks.	2 weeks.	Pneumatic, Diplöetic, pus, grans.	Staphylococcus.	None.	31 days.		Well.	Dura exposed posteriorly over an area ½ inch in diameter. Convalescence uninterrupted.
30	F.	7	L.	4 weeks.	1 week.	Pneumatic, pus, grans., caries.	Staphylococcus.	None.	48 days.		Well.	Fistula through posterior wall of canal. Subperiosteal pus. Wound healed fairly well. Six weeks later had mumps. No complications.
31	M.	28	L.	25 years.	years.	Pneumatic, grans.	Staphylococcus. Diplococcus. Pneumoniæ. Bacillus Fœtidus.	Vertigo.	41 days.	76 days.	Well.	Fistula through cortex. Cholesteatoma filling mastoid. Tympanomastoid exenteration. Dura exposed posteriorly. 1 x ⅔ in. and also superiorly.
32	M.	62	L.	7 weeks.	5 days.	Pneumatic, pus, grans.	Staphylococcus. Streptococcus.	None.	44 days.	22 days.	Well.	Convalescence uneventful. Ten days later, right mastoid opened. See N. 36.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
33	M.	32	R.	years.	years.	Sclerosed.	Staphylococcus. Diplococcus. Pneumoniæ.	Pain.	7 days.		Dead.	Nausea and vomiting at times in last ten days. Vertigo constantly, severe frontal headache. Temperature at admission 102.5°. Tympanum and meatus nearly full of polypi and granulations. Tympano-mastoid exenteration. Cholesteatoma in antrum. Several chills in next two days, no temperature, some tenderness in neck. Exploratory operation revealed no sinus infection nor any pus along posterior surface of petrous bone. Patient began to be drowsy and had slight chills. Died three days later after delirium and stupor. Autopsy showed abscess in digastric lobe of cerebellum, communicating with aqueductus vestibuli.
34	M.	32	R.	years.	years.	Sclerosed.		Pain.				

35	M.	46	L.	4 months.	4 weeks.	Pneumatic, pus, grans.	Diplococcus.	Pain.	29 days.	14 days.	Well.	Mastoiditis four weeks ago, yielding to cold coil. Dura exposed superiorly and found somewhat thickened. Convalescence uninterrupted. Secondary operation ten weeks later. See No. 64.
36	M.	62	R.	8 weeks.	1 week.	Diplöetic, pus, grans.		None.		See No. 32.		Convalescence uninterrupted.
37	F.	21	R.	6 weeks.	4 days.	Sclerosed, pus, grans.		None.	15 days.	16 days.	Well.	Dura posteriorly covered with granulations.
38	F.	11-12	R.	10 months.	5 months.	Diplöetic, caries.		None.	See No. 49.			Child unhealthy. Carious mastoid opened six months ago, sequestrum from anterior wall of antrum. Secondary operation three weeks later. See No. 49.
39	M.	9/12	R.	10 days.		Caries.	Streptococcus.	None.	38 days.			Necrosis of anterior wall of mastoid with subperiosteal pus.
40	F.	17	L.	16 years.	6 years.	Pneumatic.		None.	45 days.	Under	observation.	Mastoid opened six times previously. Cholesteatoma. Tympanomastoid exenteration. Slow convalescence.
41	F.	2	R.	6 weeks.			Streptococcus. Staphylococcus.	None.	42 days.		Well.	Parotitis one month ago. Anterior mastoid wall carious, subperiosteal pus.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
42	F.	26	R.	4 months.	1 week.	Pneumatic, pus.		Vertigo.	32 days.		Well.	Mastoiditis ten weeks ago, yielding to cold coil. Healing uninterrupted.
43	F.	45	L.	13 weeks.	9 weeks.	Grans.		Pain.	31 days.	60 days.	Well.	Secondary operation. See No. 21. Mastoid filled with unhealthy granulations. Convalescence uneventful.
44	M.	20	R.	3 months.	5 days.	Diplöetic. Pneumatic, pus.		None.	See No. 48.			Sinus exposed. Temperature four days later. Secondary operation. See No. 48.

45	M.	18	L.	1½ years.		Sclerosed, grans.		Dizziness. Paralysis.	9 days.		Dead.	Frontal headache and vertigo ten days. Facial paralysis four days. Tympano-mastoid exenteration. Very narrow mastoid. Severe pain in head after operation, and stupor next day, increasing toward night. Brain pressure symptoms. Secondary operation for exploration. Sinus healthy. Two exploratory punctures into cerebellum failed to find pus. Improvement in symptoms at first but patient soon grew worse. Temporal lobe explored and nothing found. Patient died two days later. Autopsy revealed abscess in digastric lobe of cerebellum and extensive labyrinthine caries.
46	M.	18	L.	1½ years.		Sclerosed.	Staphylococcus.	Pressure symptoms.				
47	M.	33	L.	11 months.	11 months.	Grans.		None.	63 days.		Improved.	Secondary operation. See No. 25. Granulations and sequestra from antrum. Slow healing.
48	M.	20	R.	3 months.	8 days.	Grans.		None.	24 days.	7 days.	Well.	Secondary operation. See No. 44. Attic and tympanum curetted. Convalescence uninterrupted.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
49	F.	11-12	R.	10 months.	5 months.	Grans.		None.	65 days.	120 days.	Well.	Secondary operation. See No. 38. Glands and granulations in mastoid removed. Slow recovery, a number of glands being opened.
50	M.	30	R.	3 weeks.	18 days.	Sclerosed, pneumatic pus, grans.	Streptococcus.	None.	21 days.	15 days.	Well.	Lateral sinus exposed posteriorly. Convalescence uninterrupted.
51	F.	21	R.	3 months.	3 months.			None.	23 days.	52 days.	Well.	Secondary operation. See No. 18. Carious bone in aditus. Convalescence uninterrupted.
52	F.	24	L.	8 weeks.	4 weeks.	Pneumatic, caries.		None.	33 days.	20 days.	Well.	Perforation to dura found superiorly. Convalescence uninterrupted.
53	F.	23	R.	4 weeks.	4 days.	Pneumatic, caries.	Staphylococcus.	None.	17 days.	26 days.	Well.	Fistula through posterior wall of mastoid. Sub-periosteal pus. Lower portion of tip a sequestrum. Dura exposed posteriorly. Convalescence rapid.

54	F.	44	R.	4 weeks.	2 weeks.	Pneumatic, grans.	Staphylococcus.	None.	11 days.	26 days.	Well.	Mastoiditis four weeks ago, yielding to cold coil. Convalescence uninterrupted.
55	F.	28	L.	3 years.	1 week.	Pneumatic.	Staphylococcus.	None.	36 days.	18 days.	Well.	Mastoid caries three years ago. Cholesteatoma in antrum and attic. Convalescence uninterrupted.
56	F.	36	R.	1 week.	1 week.	Pneumatic, pus.		Temperature. Delirium.	23 days.		Well.	Otitis media from violence one week ago. Pus in antrum and near surface of mastoid. Convalescence uninterrupted.
57	M.	32	L.	1 week.	1 week.	Pneumatic.		None.	16 days.	25 days.	Well.	Pus in tissues of neck. Communication with mastoid not found. Convalescence rapid.
58	M.	15	R.	10 years.	3 days.	Pneumatic, pus, grans.		Pain.	20 days.	8 days.	Well.	Chronic otitis media from scarlet fever ten years ago. Rapid recovery.
59	F.	10-12	L.	2 months.	1 month.	Caries, grans.		None.	See No. 99.			Child poorly nourished. Facial paralysis one month. Dura exposed superiorly over area ¾ x ½ inches. Progress very slow, numerous glands. Secondary operation four months later. See No. 99.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
60	F.	1 yr.	R.	1 week.	4 days.	Caries, grans.		None.	23 days.	8 days.	Well.	Convalescence uneventful.
61	M.	32	L.	1 month.	2 weeks.	Pneumatic, pus, grans.		None.	24 days.	4 days.	Well.	Fistula through tip, subperiosteal pus. Tip carious. Convalescence uneventful.
62	F.	21	R.	1 week.	3 days.	Sclerosed, pus, grans.	Streptococcus.	Pain.	37 days.		Well.	Lateral sinus exposed ¼ inch. Convalescence uneventful.
63	F.	50	R.	9 weeks.	1 week.	Caries, grans.		Pain.	33 days.	34 days.	Well.	Fistula through posterior wall of mastoid, subperiosteal abscess. Dura exposed posteriorly. Uneventful recovery.
64	M.	46	L.					None.	19 days.			Secondary operation. See No. 35. Much pain in neck above and behind mastoid. Two old pus sinuses into neck, no pus. Rapid convalescence.
65	M.	36	L.	1 week.	3 days.	Diplöetic, pus, grans.		None.	44 days.	36 days.	Well.	Slow convalescence but uneventful.

66	F.	20	R.	5 weeks.	3 days.	Pneumatic, pus, grans.		None.	23 days.			Otitis media following typhoid. Pain in mastoid under pressure. Convalescence uninterrupted.
67	F.	11	R.	3 years.	2 years.	Diplöetic.		None.	7 days.	27 days.	Well.	Otitis media following measles three years ago. Sinus to surface over antrum. Dura exposed posteriorly, area ¾ inch in diameter. Rapid recovery.
68	M.	30	R.	4 weeks.	2 weeks.	Diplöetic, pus, grans.	Streptococcus.	Dizziness.	28 days.	11 days.	Well.	Some vertigo ten days ago. Very deep mastoid. Convalescence uneventful.
69	M.	3	R.	8 weeks.	1 week.	Diplöetic, pus, grans.		None.	4 days.	52 days.	Well.	Subperiosteal abscess. Meatus very narrow with granulations in tympanum.
70	M.	22	L.	years.		Diplöetic.		None.	134 days.		Unimproved.	Posterior wall of canal removed for atresia. Granulations in attic. Atresia returned within eight weeks.
71	M.	29	L.	2 weeks.	1 week.	Sclerosed, pus, caries.		None.	27 days.	18 days.	Well.	Second operation; first one six years ago. Large pus cavity in mastoid. Caries in antrum.
72	M.	17	R.	years.	years.	Caries, grans.		None.	30 days.	Under	observation.	Mastoid operation three years ago. Cholesteatoma in antrum and attic.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöctic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O. P. D.	Result.	Remarks.
73	F.	13	R.	weeks.	2 weeks.	Caries, grans.		None.	27 days.	10 days.	Well.	Beginning facial paralysis. Fistula through posterior and superior wall of meatus. Subperiosteal abscess. Lateral sinus ¼ inch from surface of mastoid.
74	M.	16	L.	13 years.	3 years.	Sclerosed, grans., caries.		None.	36 days.	21 days.	Well.	Otitis media from measles fourteen years ago. Sinus to surface over antrum of long standing. Cholesteatoma in antrum.
75	F.	26	R.	years.	years.	Sclerosed, caries.		None.	5 days.			See No. 13. Crumbly bone in attic. Lateral sinus exposed, slow healing.
76	M.	11-12	L.			Caries, grans.		None.	102 days.	days.	Improved.	Poorly-nourished child with glands. Sequestra in anterior wall of mastoid. Wound allowed to fill with blood clot; healing by first intention. Obstinate granulations in tympanum.

77	F.	5	L.	1 year.	6 weeks.	Caries, grans.		None.	35 days.	18 days.	Well.	Otitis media from diphtheria ten months ago. Fistula over antrum; sub-periosteal abscess. Dura exposed superiorly over an area ¼ in. in diameter.
78	M.	26	R.	9 years.	4 weeks.	Sclerosed, grans.		None.	31 days.	60 days.	Well.	Cholesteatoma in antrum and attic. Slow healing.
79	M.	15-12	L.			Caries, grans.		None.	12 days.	6 days.	Well.	Sinus to surface over antrum, sequestrum of upper posterior, ⅓ of tympanic ring. Caries in antrum.
80	F.	10	L.	10 weeks.	1 week.	Pus, caries, grans.	Streptococcus. Staphylococcus.	None.	21 days.	7 days.	Well.	Otitis media during typhoid nine weeks ago. Lateral sinus exposed over area ½ in. in diameter.
81	F.	42	R.	4½ months.	5 weeks.	Grans., caries.	Bacillus Pyocyaneus.	None.	24 days.	12 days.	Well.	Fistula through posterior wall of mastoid. Convalescence uneventful.
82	M.	51	L.	4 weeks.	4 days.	Pneumatic.		None.	34 days.	17 days.	Well.	Otitis media during bronchitis four weeks ago. Fistula to surface of mastoid. Dura exposed and lateral sinus over area ½ in. in diameter. Posterior wall of canal removed. Recovery uneventful.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöctic or Sclerosed, Pus, Caries, etc., Portion Removed).	Cultures.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O. P. D.	Result.	Remarks.
83	F.	3	R.	4 weeks.	4 days.	Caries, pus.	Diplococcus. Pneumoniæ.	None.	39 days.		Well.	Fistula through posterior wall of mastoid. Lateral sinus exposed over area ½ x ¼ inches. Convalescence uneventful.
84	F.	22	L.	3 weeks.	6 days.	Pneumatic, pus, grans.		None.	27 days.	3 days.	Well.	Pus under pressure. Lateral sinus exposed over area ¼ in. in diameter. Perforation of tip posteriorly. No pus in neck.
85	M.	2	L.	10 days.	8 days.	Diplöetic, pus, grans.	Staphylococcus.	None.	12 days.		Improved.	Fistula over antrum. Sub-periosteal abscess.
86	F.	4	L.			Diplöetic, pus, grans.	Streptococcus.	None.	15 days.		Well.	Dura exposed superiorly. Wound allowed to fill with blood clot and healing by first intention.
87	M.	4	L.	2 weeks.	1 week.	Diplöetic.		None.	23 days.	17 days.	Well.	Convalescence uninterrupted.

88	F.	30	R.	years.	2 weeks.	Sclerosed, pus, grans.		None.	19 days.	10 days.	Well.	Tenderness in digastric fossa. Cold coil one week without relief. Fistula through tip and pus in tissues of neck, thoroughly opened and curetted. Recovery uneventful.
89	M.	36	R.	2 weeks.	10 days.	Caries, grans., pus.		None.	10 days.	17 days.	Well.	Dura exposed superiorly. Recovery uneventful.
90	M.	29	R.	8 years.	2 days.	Caries, grans., pus.		None.	22 days.		Well.	Sequestra in top of mastoid. Dura exposed superiorly, sinus exposed. Recovery rapid.
91	M.	16	R.	3 years.	6 days.	Pneumatic.		Nausea. Dizziness.	See No. 93.			Patient very ill on entry. Much tenderness over antrum and in neck. Mastoid filled with foul, greenish, cheesy material. Lateral sinus entered. Secondary operation ten days later. See No. 93.
92	F.	43	L.	2 years.	6 weeks.	Pneumatic, pus, grans.		None.	16 days.		Well.	Lateral sinus exposed superiorly. Recovery uneventful.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic, or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O. P. D.	Result.	Remarks.
93	M.	16	R.			Secondary. See No. 91.			33 days.	10 days.	Well.	Secondary operation. See No. 91. Chills on two days following operation; on sixth day swelling in neck marked, increasing. Pus in tissues of neck. No communication with mastoid found. Five days later spot of gangrene in left lung, under axilla. Well one month later.
94	M.	38	R.	3 weeks.	2 weeks.	Diplöetic, pus.		None.	18 days.	3 days.	Well.	Lateral sinus exposed. Convalescence uninterrupted.
95	M.	17	R.	1 week.	4 days.	Sclerosed, pus, grans.		None.	See No. 97.			Dura exposed posteriorly, chi l three days later. Wound foul and swelling in neck. Secondary operation eight days later. See No. 97.
96	M.	11-12	L.	2 weeks.	5 days.	Pneumatic, grans., caries.		None.	12 days.		Well.	Subperiosteal abscess. Dura exposed above in area ½ inch in diameter. Wound filled with aseptic blood clot and healed by first intention.

97	M.	17	R.			Secondary. See No. 95.		None.			Dead.	Secondary operation. See No. 95. Fistula through posterior wall of mastoid. Pus in tissues of neck. Dura exposed posteriorly; tip removed. Four days later symptoms that developed those of purulent peritonitis. Operation two weeks later. Death. Autopsy showed metastatic abscess in liver and spleen.
98	M.	30	R.		2 weeks.	Pneumatic, caries.		None.	17 days.	6 days.	Well.	Swelling in neck. Fistula through tip. Pus in tissues of neck. Lateral sinus exposed. Pus cavity curetted and drained. Convalescence uneventful.
99	F.	$1\frac{3}{12}$	L.	7 months.	6 months.	Secondary operation. See No. 59.		None.	34 days.		Dead.	Secondary operation. See No. 59. Three sequestra removed, sinus exposed. Wound progressing well until death by cholera infantum.
100	F.	17	L.	years.		Diplöetic.		Severe headache.		Still in	hospital.	Mastoid 1/6 inch deep. Sinus exposed on removing cortex. Dura extensively exposed posteriorly. Cholesteatoma in attic. Caries in base of petrous bone. Lateral sinus opened. Secondary operation ten weeks later.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid (Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O. P. D.	Result.	Remarks.
101	F.	8-12	R.	2 months.		Caries.		None.	20 days.	Under	observation.	Sinus to surface over antrum. Caries in antrum. Upper posterior part of tympanic ring carious. Extra dural abscess in depth.
102	F.	28	L.	12 days.	8 days.	Pneumatic, grans.		None.	11 days.		Well.	Recovery uneventful.
103	M.	58	R.	3 months.	5 days.	Diplöetic, pus.		None.	17 days.		Well.	Dura exposed posteriorly in area ¼ x ⅓ in. Recovery uneventful.
104	F.	32	R.	6 weeks.	4 weeks.	Diplöetic, grans.		None.	13 days.	8 days.	Well.	Fistula through anterior wall of tip. Pus in neck, granulations in anterior cells of mastoid. Recovery uneventful.
105	M.	9	L.	years.	months.	Pneumatic, grans.		None.		Under	observation.	Sinus to surface over antrum. Mastoid filled with cholesteatoma. Granulations in tympanum. Posterior wall of canal cut away. Lateral sinus exposed. Recovery uneventful.

106	F.	12	R.	2 years.	2 weeks.	Diplöetic, grans.		None.	33 days.	7 days.	Well.	Convalescence uninterrupted.
107	F.	8	R.	years.	7 days.	Diplöetic.		None.	See 114.			Caries in tympanum and antrum. Exuberant granulations returned in tympanum requiring secondary operation three weeks later. See No. 114.
108	F.	2	L.	18 months.	4 days.	Diplöetic, pus.		None.		Still in	hospital.	Caries over antrum. Subperiosteal pus. Recovery uneventful.
109	M.	27	L.	3 weeks.	10 days.	Pneumatic, pus, grans.		None.	18 days.	10 days.	Well.	Mastoid tenderness failed to yield to cold coil. Fistula into digastric fossa; no pus in neck. Lateral sinus exposed. Convalescence uninterrupted.
110	F.	3	R.	2 years.	10 days.	Pneumatic, pus, caries.		None.		Still in	hospital.	Bone over antrum carious. Sub-periosteal pus. Recovery uninterrupted.
111	F.	5	R.	5 years.	3 weeks.	Pneumatic, pus, caries.			Drowsiness.	Still in	hospital.	High temperature and drowsiness just before operation. Cholesteatoma in antrum. Lateral sinus exposed by caries and beginning to be discolored. Middle fossa of cranium opened area ¼ in. in diameter. Recovery uneventful.

No.	Sex.	Age.	Ear.	Duration of Tym. Disturbance.	Duration of Mastoid Disturbance.	Character of Mastoid Pneumatic, Diplöetic or Sclerosed, Pus, Caries, etc., Portion Removed).	Culture.	Brain Symptoms.	Duration of Subsequent Treatment in Hospital.	Duration of Subsequent Treatment in O.P.D.	Result.	Remarks.
112	M.	40	R.	years.	10 days.	Sclerosed.		None.		Still in	hospital.	Mastoid opened three years ago for abscess. Mastoid now full of cholesteatoma. Posterior wall of canal removed, converting tympanum, antrum, and mastoid into one large cavity. Facial paralysis. Recovery uneventful.
113	F.	29	L.	3 mos.	1 week.	Diplöetic, pus, grans.		None.		Still in	hospital.	Acute otitis media from violence to ear three months since. Mastoid filled with pus and granulations. Recovery uneventful.
114	F.	8	R.	years.	5 weeks.			None.		Still in	hospital.	Secondary operation. See No. 107. Exuberant granulations in tympanum, caries in antrum. Posterior wall of canal removed and antrum opened. Facial paralysis. Recovery uneventful.

115	F.	61	L.	6 weeks.	3 weeks.	Diplöetic.		None.		Still in	hospital.	Convalescence uneventful.
116	F.	11	L.	5 years.	4 months.	Diplöetic.		None.		Still in	hospital.	Posterior wall of meatus removed, antrum entered for granulations and caries of tympanum and antrum. Dura exposed ¼ x ⅓ in. in diameter.

DONATIONS IN 1898.

The Managers desire to gratefully acknowledge the receipt of the following donations in 1898: —

Coats for male attendants, from Dr. C. J. Blake.

Scrap-book, from Loyal League Band Workers.

Thirty-six pieces underclothing for women and children, from Trinity Church Employment Society.

Spectacles and eyeglasses, from Miss Ida Mason.

Twelve children's aprons, from Channing Circle, Arlington Street Church.

Preserves, from Miss Vasque.

Spectacles and eyeglasses, from Miss Mary Whitney.

Fifty-seven pieces underclothing, from Boston Sewing Circle, through Miss Loring.

Old linen, six pieces underclothing, and one comb, Anonymous.

Two pictures for the children's ward, from Dr. B. Joy Jeffries.

One hundred and twenty-eight pieces clothing, from Mrs. Robert Morse.

Two dozen dolls, toys, and games, from Mrs. Chas. P. Curtis.

Flowers, from Boston Flower and Fruit Mission.

Flowers, from Mrs. B. F. Cheney.

Magazines, Anonymous.

Old linen, from Miss Ella Richardson.

Old linen, from Mrs. Dr. Codding.

Old linen, from a patient.

Three dozen ear syringes, from Franklin Rubber Company.

Twenty-four dolls and large box of toys, for Christmas, from Mrs. Chas. P. Curtis.

Pictures, handkerchiefs, etc., for patients' Christmas, from Episcopal City Mission, through Mr. Stanton King.

Twenty-five pounds of candy, from Devens School, Everett, Mass.

Case of toys, from D. W. Gooch School, Melrose, Mass.

Box of toys, from Miss Ella Bradley.

Greens for Christmas decorations, from Mr. Fred Pickering.

Wreaths for Christmas decorations, from Mr. L. B. Chandler.

Fruit and pound cakes, from Mr. E. W. Barry.

Christmas tree and candy, from Mr. H. W. Morse.

One dollar and one half, from Dr. A. M. Amadon.

Fancy pins and novelties for children, from Dr. E. W. Clap.

Five dollars for Christmas tree decorations and cards, through Miss Bernice Brown.

Christmas magazines, from Dr. J. C. Warren.

Owing to the liberality of the following persons and the generous work of Mr. Wm. H. Seabury we were enabled to have a large and very pretty Christmas tree for one hundred and thirty inmates, each of whom received one or more presents: —

Miss Gertrude Baker, Mr. Frank A. Day, Mr. Charles E. Sweet, Mrs. Frede ic Warren, Mrs. C. G. Rice, Miss Mabel Simpkins, Mrs. Geo. von L. Meyer, Mr. Geo. P. Gardner, Mr. W. D. Sohier, Mrs. R. S. Bradley, Mr. Henry R. Shaw, Mr. Charles R. Simpkins, Mrs. H. H. Gray, Mrs. Dean Pierce, Mrs. H. M. Sears, Mrs. C. P. Curtis, Jr., Mrs. Oliver Ames.